Draft table for comments



MESSAGE EVOLIS:

Ce document recense les derniers sujets qui étaient en discussion au niveau européen et pour lesquels il était attendu que les différentes parties prenantes se positionnent pour le mois de mai 2020. Ce travail a été finalisé vendredi 20 mars 2020 et transmis à différents Comités européens, au moment de premières mesures de confinement prises en France à cause de l'arrivée du virus COVID-19.

Proposals for the Revision of Directive 2006/42/EC on machinery

Machinery Working Group

Brussels, 19-20 January 2020

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Proposal 1

France: Add a definition in point 1.1.1 relating to different work situations implementing a robotic application, specifying that the preventive measures must be adapted to the different situations, avoiding any dangerous contact *EHSR 1.3.7 Risks related to moving parts*:

- Situation of human-robot coexistence in a shared space without direct collaboration,
- Work situation in human-robot interaction (simultaneous or alternating work on a piece).

Proposal 2

Netherlands (TNO Report): Add new EHSRs for control system ergonomics to be included in the Machinery Directive (supplementary to Section 1.1.6, Annex I MD):

- a. Machines equipped with machine learning technology must be able to respond to people adequately and appropriately.
- b. Machines equipped with machine learning technology must indicate which actions they are about to perform and must provide details of the information on which these actions are based.

Opinions

Denmark: The MD already covers machines with machine learning in a sufficient way. The MD guide should be updated in order to explain this, and technical requirements should be specified in a standard. However if a majority of stakeholders wants requirements related to machine learning to be added to the MD, Denmark is not against this.

NB: Essential health and safety requirements should be adapted to take into account humans and robots sharing a given space. Necessary distances, existing speeds of approach from person to robot, the resulting threats must be set out.

Manufacturers: Most industry associations is of the opinion that the MD already covers.

Manufacturers: Most industry associations is of the opinion that the MD already covers machines with machine learning in a sufficient way.

Proposal 1

[EVOLIS] Disagree with this amendment proposal from France for the following reasons:

- 1. Firstly, this is not the purpose of the machinery directive to list all possible work configurations. Those work configurations are part of the information needed to make the risk assessment. In a general way, the work configurations are machine type oriented, that's why they are taken into account when drafting EN standards dealing with the safety of a specific machine family.
- 2. In addition, in terms of consistency, why such specific amendment proposal should be only focused on EHSR 1.3.7?

Such work configurations have also to be taken into account during the risk assessment for all other relevant EHSR (e.g. EHSR related to ergonomics, ejection of pieces, contact with thermal parts, etc.).

Consequently, if we start drafting work configurations in the legal text, we will increase a lot the content of the legal act without adding any value.

3. Thirdly, we don't see any reason to focus on human-robot coexistence in a shared space without direct collaboration for EHSR related to moving parts, while in a more general way, there are work configurations of operator-machine coexistence in a shared space without direct collaboration (e.g. operators on a jobsite in the vicinity of mobile machinery). Regarding work situation in human-robot interaction, there are some standardisation works in order to address the relevant EHSR for such situations (e.g. requirements dealing with the maximum forces and frequencies of contact between an operator and a collaborative robot).

Proposal 2

[EVOLIS] Disagree with this amendment proposal from Netherlands because the machine learning in itself doesn't create new risks. For machines with specific functions (e.g. mobility, lifting of persons), it is relevant to have a set of EHSR in order to address the relevant safety issues for the risks related to these functions. Machine learning is not a function but a technology. If we have to take into account existing technologies when revising the machinery directive, this legal text will become voluminous and which won't make it any easier to read.

Annex I –1.1.2. Principles of safety integration

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° Proposal - France New EHSR or addition in Guide as follows: [EVOLIS] Disagree 1.1.2 Principles of safety integration (continued) . . . First, we don't understand the need of such new legal requirement. What is the goal? What kind of maintenance or adjustment of machinery using AI would (e) Machinery must be supplied with all the special equipment and accessories essential to enable it to be adjusted, maintained and used safely. The manufacturer shall provide test require such provision of test procedures and/or test devices? what are test procedures and / or test devices for the maintenance and adjustment of machinery using devices? AI. Secondly, the maintenance phase is already well taken into consideration in the MD, through specific EHSRs in clause 1.6 and through the chapter "content of instructions", especially in sub-clauses 1.7.4.2.e), r) or s) Those EHSR already requires to provide information and instructions. Moreover, there may have maintenance operations intended to be done exclusively by specialised personnel mandated by the manufacturer or his authorised representative. In such case, the manufacturer has to provide instructions for these specialised personnel, and we have some doubt about the ability of users to maintain and adjust the AI related part of a machine, taking into account that this AI related part of a machine belongs to the know-how of the OEM. Finally, this requirement proposal is inserted in a very general clause related to "Principle of safety integration" which is not relevant with a new requirement related to the provision of test procedures and/or test devices. Annex I –1.2.1. Safety and reliability of control systems 6

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° **IEVOLIS** Disagree with the introduction of "undesirable". This term is too much Proposal 1 – the Netherlands subjective and the new formulation could be interpreted in different ways. 1.2.1. Safety and reliability of control systems We also assume that this new formulation could justify that cyberattacks are Control systems must be designed and constructed in such a way as to prevent hazardous risks covered by the MD, while this is not the case. situations from arisina. Above all, they must be designed and constructed in such a way that: — they can withstand the intended operating stresses and undesirable external [EVOLIS] We don't see the value of adding influences. — if any errors or unforeseen conditions should occur in the control system, the — a fault in the hardware or the software of the control system does not lead to hazardous machine should immediately revert to a safe state while there are already two EHSRs just above aiming at achieving the same — errors in the control system logic do not lead to hazardous situations, result: — reasonably foreseeable human error during operation does not lead to hazardous — a fault in the hardware or the software of the control system does not lead situations, — if any errors or unforeseen conditions should occur in the control system, the to hazardous situations, machine should immediately revert to a safe state — errors in the control system logic do not lead to hazardous situations, *(....)* For cable-less control, an automatic stop must be activated when correct control signals [EVOLIS] Disagree with the new clause, because a machinery cannot make any are not received, including loss of communication. decision! With regard to the safety and reliability of the control systems: A machinery does what the designer has programmed the machine to do, by Machines equipped with machine learning are not permitted to make decisions or using software, automatism and eventually Al. Moreover, Al module is not assessments in relation to injury to people or damage to the surroundings, necessarily safety related. There may have AI modules only designed to adapt Machine learning must not cause the machine to exhibit new actions that exceed its the task intended to be done by the machine. defined task and movement space. In any case, a machine with AI still works under the limits of a "safety envelope" If they take incorrect decisions, machines equipped with machine learning technology which has been developed at the design stage by the OEM. This "safety must be retrospectively correctable, to prevent any future recurrences of that particular envelope" takes into consideration all relevant risks of that machine and the error, environment (outdoor, indoor, with/without operators in the vicinity, etc.) — The actions of a machine equipped with machine learning technology must be traceable where the machine is intended to be used. in advance and retrospectively, based on transparency of the datasets used, as well as of the test environments and of the decision frameworks or assessment criteria for algorithmbased decisions, — The decision-making process of a machine equipped with machine learning technology must be logged and retained in such a way that this information remains available for a minimum period of time and can then be checked, for instance during audits or incident analyses. Annex I –1.2.1. Safety and reliability of control systems 7

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	Proposal 2 - France 2.a - Control systems must be designed and constructed in such a way as to prevent hazardous situations from arising. Above all, they must be designed and constructed in such a way that: — they can withstand the intended operating stresses and external influences, — a fault in the hardware or the software-logic of the control system does not lead to hazardous situations, — errors in the control system logic do not lead to hazardous situations, reasonably foreseeable human error during operation does not lead to hazardous situations, — The safety functions cannot change outside the limits of the manufacturer's defined scope. This scope is validated and guaranteed by the machine manufacturer, regardless of any modifications to the settings or rules generated either by artificial intelligence or by operators in charge of the learning phases.	[EVOLIS] Would it be possible to understand the reason for such change "software logic"?
	OR 2.b — Update Chapter 86 of the Guide The machinery may need to be tested as part of the installation and commissioning process for a short and limited period under the full control of the manufacturer, which includes the control of the persons involved in the testing. The learning phase which is essential to the machinery using AI to be useable must be carried out, under the responsibility of the manufacturer, before the machine is placed on the market and the EU declaration of conformity is issued. This learning phase must be carried out without generating risks.	[EVOLIS] Agrees with Proposal 2.b
	(!) Terms and notions used in MD should be updated. Notion of Control systems (EHSR 1.2) used in the MD as means for risk reduction will not be useable if a machinery is using vocal detection device and/or visual detection device and/or non-physical device (e.g. neural piloting of the machinery). How to ensure the same level of safety with those new technologic means in the MD? (!) There are no Specific requirement for mobile machinery which are not driven by a human operator in EHSR 3. It is typically necessary to have those kind of requirement for outdoor activities (e.g Agriculture machinery used in fields).	[EVOLIS] Don't agree with a revision of the term "control system" because there is still a control system. Whatever the means used to activate a control (voice, visual detection), there is still an information pick-up device, i.e. sensor, which will actuate a control itself being part of a control system.
8	Annex I - 1.2.3. Starting -& 1.2.4.3. Emergency stop	

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° **IEVOLIS** Disagree, because the proposal is not clear enough and for sure, not **Proposal - Robotics Association** Define 'automatic' and autonomy' in: 1.2.3. Starting relevant in this section. First of all, a machine cannot take any decision! There is a difference between For machinery functioning in automatic mode, the starting of the machinery, restarting automatic and autonomous machines after a stoppage, or a change in operating conditions may be possible without intervention, The definition of machinery in Art. 2 is broad enough to include automatic or provided this does not lead to a hazardous situation. autonomous machines. Annex I, 1.2.3 deals with all machines (stationary and Reasoning: The text make reference to 'automatic' mode' without defining 'automatic'. mobile ones). There is no reason to introduce "autonomous machines" in general When developing robotics solutions and autonomous machines, it is more convenient to requirements. use 'autonomy' to describe the ability of the machine to take decisions in order to adapt its motion for achieving its goal. Defining both terms could provide a better guidance for standard writing and risk assessment. Add an additional exception for situations where machinery is doing its job autonomously and the human supervisor (especially in remote situations) may have only partial contextual data, which are not suited for a proper evaluation of hazard occurrence: 1.2.4.3. Emergency stop [EVOLIS] Machinery must be fitted with one or more emergency stop devices to enable actual or → TBD impending danger to be averted. *The following exceptions apply:* — machinery in which an emergency stop device would not lessen the risk, either because it would not reduce the stopping time or because it would not enable the special measures required to deal with the risk to be taken, — portable hand-held and/or hand-quided machinery. Reasoning: The emergency stop for a remote supervisory station – when the operator does not have the direct command of the actuators – does not seem suited and could lead to additional hazards. Annex I - 3.1.1. Definitions & 3.2.1 Driving position 9

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° **[EVOLIS]** For autonomous machines, the concept of driver is not relevant **Proposal - Robotics Association:** Clarify the notion of 'driver' with a more appropriate wording for robotics solutions, such because there is no driver. as replacing it with 'supervisor': → TRD 3.1.1. Definitions (b) 'Driver' means an operator responsible for the movement of a machine. The driver may be transported by the machinery or may be on foot, accompanying the machinery, or may guide the machinery by remote control. Reasoning: The driver is defined as an operator responsible for the movement. For autonomous work, a natural person is still responsible for the autonomous operation to be safely done, but the notion of 'driver' may not be the most accurate way to describe his function. In relation to the proposal above, to define 'supervisory station', either as a part of the driving station or as a whole new position: 3.2.1. Driving position Visibility from the driving position must be such that the driver can, in complete safety for [EVOLIS] For autonomous machines, there is no driving position because there himself and the exposed persons, operate the machinery and its tools in their foreseeable is no driver. conditions of use. Where necessary, appropriate devices must be provided to remedy → TBD hazards due to inadequate direct vision. Machinery on which the driver is transported must be designed and constructed in such a way that, from the driving positions, there is no risk to the driver from inadvertent contact with the wheels and tracks. The driving position of ride-on drivers must be designed and constructed in such a way that a driver's cab may be fitted, provided this does not increase the risk and there is room for it. The cab must incorporate a place for the instructions needed for the driver. Reasoning: The driving position is clearly defined. For autonomous machinery, the driver could manually operate the machine through control or launch autonomous work. The supervised task could be resumed by a start/stop device to authorize or terminate the autonomous work. Annexes IV & V (software) 10

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° **[EVOLIS]** Internal question to manufacturers: Proposal - France When the component using AI to provide a safety function (and integrated into the 1) Are there some components machinery) has been placed independently on the market, then components using this - placed independently or not on the market kind of AI should be considered as "safety component under Annex V" - using AI and When the component using AI to provide a safety function (and integrated into the - where AI provides a safety function? machinery) has not been placed independently on the market, i.e. the component is directly designed by the machinery manufacturer, then the assessment of the overall 2) Taking into account that safety functions of a machinery are being part machinery provided in Article 12 point(3) of the Directive is necessary (list of machines in of the risk assessment of the whole machinery, is it possible to envisage Annex IV), and an item 24 should be added to the list of Annex IV: 24) machinery using Al that a component with AI providing a safety function and being placed which manages a safety function(s) when the AI is not integrated into a safety component. independently on the EU market? Reasoning: Al replacing conventional systems that perform a safety function (whether they 3) Do we know a machinery with AI and where AI is intended to manage are safety components independently placed on the market or devices directly designed by safety functions? the machinery manufacturer) cannot be yet assessed. Conventional programming evaluation tools are not useable for AI technology, hence explicability of AI algorithms not Don't we consider the AI as part of the know-how of the OEM? vet possible Those solutions will emerge in future, so they have to be taken into account in MD. 5) If we consider AI as part of the know-how of the OEM, how a third party Opinions will be able to verify the management of a safety function by AI? Netherlands: When safety features are built into the software, we need to have EHSR about keeping it safe (e.g. who can change or which change is allowed to the robot programming). Software updates should be treated as part of the machinery. However the machinery should always be safe without updates and should also continue to function safely without updates. If not then it is reasonably foreseeable that users will try to get the machinery working themselves. NB: Safety-related software must be considered as a safety device and be included in Annex V. Index 11 List of areas: o New technologies o Scope and borderlines with other directives o Definitions o Annex I Essential Health and safety requirements o Annex IV o Annex V, VI, VII, VIII Per each area, information is provided on: o Inputs received from stakeholders o Outcomes of the on-going Impact Assessment o Commission comments based on the above

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12	New Article - Removal of PED exclusion on Cat. I machinery	
	Addition of a NEW article in MD to amend PED in order to eliminate the below exclusion: DIRECTIVE 2014/68/EU on the harmonisation of the laws of the Member States relating to the making available on the market of pressure equipment. Article 1 Scope 2. This Directive shall not apply to: (f) equipment classified as no higher than category I under Article 13 of this Directive and covered by one of the following Directives: (i) Directive 2006/42/EC of the European Parliament and of the Council; Opinions MSA: To the question "Would it be beneficial for the safety of the machinery if, in addition to the Machinery Directive, the Pressure Equipment Directive also applied even if the items of pressure equipment are classified no higher than category I under the Pressure Equipment Directive?" a majority of MS authorities replied 'yes'. NB: the exclusion of pressure equipment category I from the PED does lead to safety concerns (50%). Manufacturers: Most manufacturers indicated no safety concerns from the exclusion. Workers and employers' associations: support the inclusion of the pressure equipment Cat.1 in the PED. Impacts Costs: If the exclusion is removed, increased costs are expected by manufacturers of pressure equipment, and as a consequence, by manufacturers of machinery using this equipment. No quantification has been provided. Benefits: Improved safety. Improve competitiveness of EU industry outside the EU.	[EVOLIS] This proposal aims at changing the scope of PED. It has nothing to do with the revision of MD. The impact of such proposal would mean that an equipment classified as no higher than category I under article 13 of PED and covered only by MD, would not be excluded anymore from PED. We don't agree with this removal proposal for the following reasons. This does not bring any improvement regarding to safety: we are talking here about components or sub-assemblies that will be integrated in a bigger assembly. Machinery manufacturers always carry out a conformity assessment procedure according to Article 5(1) of the Machinery Directive for the entire machine. This includes a risk assessment which takes into account the elements that work under pressure. Based on the final destination and integration of this equipment (or sub-assembly), the machinery manufacturer shall define the appropriate protective means in order to address any risk that could occur in case of failure of the pressure equipment. The protective means will depend on the way such equipment is integrated in a machine and the relevant risk to be addressed (e.g. enclosing the pressure equipment, fitting a safety valve,). In addition, there is no accident data that would justify such a change.

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3	Article 1.2 (b) fairgrounds	
	Proposal 1 Removal of the exclusion The following are excluded from the scope of this Directive: (b) specific equipment for use in fairgrounds and/or amusement parks; Proposal 2 Clarification of the exclusion Finland: There are continuously emerging new type of equipment that are not designed to be used in a fairground or amusement park, but are highly comparable to such equipment. This exclusion should be clarified, if kept in the new legislation. Finland to provide concrete suggestion. Opinions All stakeholder types: the exclusion requires clarification or should be removed. Consumer organisations: this remains an important issue, since currently there is no EU legislative framework covering this type of equipment. COM: Need to consider both 'fixed location amusement parks' and 'travelling fairs'. NB: According to one NB, it is possible to shift the amusement parks into the MD under the condition that additional dedicated EHSRs (G-Forces etc.) are clearly defined. NB to provide concrete suggestion. Impacts Costs: additional costs for manufacturers to comply with MD. No quantification provided. Benefits: Improved safety. IAAPA (International Association of Amusement Parks and Attractions) Ride Safety Report 2017 on fixed location amusement parks – EMEA shows 570 injuries for the EU27, EEA,Switzerland, Turkey and UK, of which 27 were serious: 10 when getting in/out and 17 when ride in motion.	[EVOLIS] No opinion.

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14	Article 1.2 (c) nuclear purposes	
	Proposals Article 1.2 The following are excluded from the scope of this Directive: (c) machinery specially designed or put into service for nuclear purposes which, in the event of failure, may result in an emission of radioactivity; to be reworded as: Option 1 [France]:Art 1.2(c) machinery specially designed for use within or used in a nuclear installation and whose conformity with the Machinery Directive may affect (undermining) nuclear safety Reasoning: Replace the notion of "nuclear use" with that of "nuclear installation" which is the one used by Directive 2013/59/ Euratom; and use the notion of "undermining" also derived from the Euratom Directive. Option 2 [COM]: Art 1.2(c) 'machinery specially designed for use within or used in a nuclear installation, which, in the event of failure, may affect (undermining) nuclear safety; Reasoning: Art 1.2(h) of PED matches the current text in MD: This Directive shall not apply to: items specifically designed for nuclear use, failure of which may cause an emission of radioactivity; Opinions All stakeholder types: the majority of respondents had no opinion (70%). Manufacturers: About half of the respondents that manufacture nuclear machinery (50%) indicated rather disapproval to the exclusion. Impacts Costs: Manufacturers of nuclear machinery interviewed were split between expecting costs to increase with changes in the MD and no costs expected. No estimates were provided. Benefits: Improved safety.	[EVOLIS] Agree with the principle to not make any exclusion but this new proposal is not clear enough. Proposal suggested: Art 1.2(c) machinery specially designed or put into service for nuclear purpose which, in the event of failure, may result in an direct emission of radioactivity

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15	Article 1.2 (f) seagoing vessels	
	Proposal Article 1.2 The following are excluded from the scope of this Directive: (f) seagoing vessels and mobile offshore units and machinery installed on board such vessels and/or units; Proposal [France] – Art 1.2 (f) 'seagoing vessels and mobile offshore units and machinery installed on board such vessels and/or units which is intended for the safety of life at sea;' Reasoning: The machinery directive guidelines (§ 58) specify that seagoing vessels are covered by the conventions of the International Maritime Organisation (IMO). However IMO covers only international activity, and not coastal fishing. France provided examples of serious injuries to workers operating machinery on board of seagoing vessels. Opinions Austria: Difficulty to deal with vessels from a third country approaching EU ports with non-CE marked machinery was a reason for having set up this exclusion in the first place. COM: Are requirements in MD adequate for a marine environment (atmospheric salinity and humidity, etc.)? Impacts Costs: No quantification provided. Benefit: Increase the safety of workers using machinery on board of seagoing vessels (such as machinery for handling and processing fishing products).	[EVOLIS] No opinion

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° Article 1.2 (k) LVD (Part 1) Proposal 1 16 Remove the exclusion Article 1.2 The following are excluded from the scope of this **IEVOLIS1** By removing this precise list of electrical products from the list of Directive: (k) electrical and electronic products falling within the following areas, insofar as exclusions of the MD, this would lead to the consequence that all machinery they are covered by Council Directive 73/23/EEC of 19 February 1973 on the harmonisation connected to the low voltage network would not have to fulfil anymore the of the laws of Member States relating to electrical equipment designed for use within LVD. certain voltage limits (3): As far as we know, this would change the practice for a lot of machinery (e.g. — household appliances intended for domestic use, — audio and video equipment, tower cranes, aggregate processing plant, intralogistics plant...) — information technology equipment, — ordinary office machinery, Need feedback from OEM to evaluate this change!! — low-voltage switchgear and control gear, — electric motors; **Opinions** Netherlands: In favour of removing the exclusion of low-voltage equipment from the scope of the Directive in Article 1 (2) (k), so that all machines, regardless of risk, are subject only to the MD. This would allow a clear separation between both product groups: - Everything which is by definition a machine falls under the Machinery Directive. - All other electrical products that do not meet the definition of a machine, e.g. cable, plug, installation material... etc. are covered by the Low Voltage Directive. In addition, the distinction between consumer and professional use is a grey area as many times professional products are being used in the consumer domain and vice versa. Germany: In the case of requests to our authority, in about half of all cases it is not clear which harmonisation legislation applies to the product requested (MD or LVD). Industry: the majority of industry associations, importers, distributors and machinery manufacturers did not experience any problems of compliance due to exclusion of LVD products. **Impacts** Costs: The costs of removing the exclusion could not be reliably quantified. Benefits: improved safety. Best is to let all machinery fall under the MD since it is a very elaborate directive. The LVD needs to apply ONLY when some product is NOT machinery.

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17	Article 1.2 (k) LVD (Part 2) Proposal 2	
	Update the list of electrical and electronic products in the exclusion: Article 1.2(k) — household appliances intended for domestic use, — audio and video equipment, — information technology equipment, — ordinary office machinery, — low-voltage switchgear and control gear, — electric motors; — Opinions Most authorities: difficulties in enforcing the MD by differentiating between consumer and professional products (58%). Finland: the list of electrical appliances in the scope of the LVD that are excluded from the MD does not consider new type of appliances that do not fit in the groups of the list as such, but are comparable to them. The list should be updated so that new type of products may be included continuously, when needed. Finland to provide concrete suggestion. Denmark: There is no need to change the scope related to LVD. Changes mean new uncertainty and the need for revision of standards. The proposal to clarify the issue concerning chargers embedded or supplied separately could be clarified in the guide. Overall: more respondents indicated that changes in general would facilitate the enforcement of the Machinery Directive or the standardisation process (45%) rather than not being beneficial (21%), but they could be made in the Guide (as done in version 2.2). Impacts Costs: The costs of changing the list of products under Art.1.2(k) could not be reliably quantified. Benefits: improved safety. Looking into the RAPEX list of alerts from the past ten years, a total of 1,844 products related to electrical appliances were found. Of these products, eight did not comply with the requirements of the Machinery Directive, all of which were originating from China, and included: generators (2), a 3D printer for home use	[EVOLIS] No opinion at that time. Wait and see Finland proposals
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Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° 19 **Article 2 Definitions - Machinery** Proposal - France [EVOLIS] We understand the concern of French authorities as a wish of defining Current definition: 'machinery' means the notion of 'specific application' in order to clarify the borderline between — an assembly, fitted with or intended to be fitted with a drive system other than directly **PCM** and Machinery. applied human or animal effort, consisting of linked parts or components, at least one of Indeed, the 'specific application' is one of the criteria to distinguish a machinery which moves, and which are joined together for a specific application. from a PCM and that notion is not defined today, but we don't see the added France: '— an assembly, fitted with or intended to be fitted with a drive system other than value of this amendment proposal. Moreover, we don't understand the link directly applied human or animal effort, consisting of linked parts or components, at least between the energy stored in the equipment and the reasoning for such one of which moves, and which are joined together for a specific application and for a use amendment proposal? as defined by the manufacturer. The energy stored in the equipment must be greater than the energy generated by a single human or animal action for it to be considered We believe that there is a large consensus on the fact that the specific application machinery.' refers to an intended use of a machine as defined by the manufacturer at the design stage. This intended use corresponds to the final use of a machine. A PCM Reasoning: according to exiting definition the notion of machinery and PCM overlaps; If the specific application is deemed to be the basic function of machinery, there are very only brings a function to machinery (or to an assembly of machinery), but a PCM few items of partly completed machinery. Regarding the notion of specific application in doesn't have any final use, because it is only intended to be integrated in a bigger the updated Guide, version 2.1 of July 2017 Machinery must be useable for a specific assembly. Taking also into consideration the comment given in item 20 by most of application as applying to the complete machine and its intended use. respondents ("Most respondents would prefer a more clearly defined term of "specific application"), we agree that it could helpful to clarify the notion of 'specific application' in the interpretation guidelines of the MD. For this, see our suggestion related to item 27.

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° 20 **Article 2 Definitions - PCM Proposal** Current definition: 'Partly completed machinery' means an assembly which is almost [EVOLIS] As a general statement, we would like to underline the fact that such machinery but which cannot in itself perform a specific application. discussions related to definitions of some terms in the MD are not safety related Proposal 1 but more helpful to clarify the responsibility of some stakeholders, e.g. is a supplier of an equipment (e.g. conveyor, motorized valve), a supplier of a PCM or Removal of PCM Proposal 2 a manufacturer of a machine? Clarification of PCM - France: 2 alternatives: Indeed, we have never heard about any accident occurring in the field which is 1) clarify by introducing the relative differences between PCMs and interchangeable the result of a misinterpretation of the concept of PCM versus interchangeable equipment: 'an assembly which is almost machinery but which cannot in itself perform a equipment of PCM versus machinery. The definitions given in the MD are not specific application. Any device installed after the machinery on which it is assembled has guilty of accidents occurring in the field. been put into service is not deemed partly completed machinery. That's why we would prefer to clarify the borderline by adding some general 2) in an Annex or in the Guide, define a restrictive list of equipment that may be deemed principles and concrete example in the MD guidelines, instead of changing some partly completed machinery. definitions that are suitable for a great majority of cases. **Opinions** Netherlands: Agree to Proposal 1. [EVOLIS] We fully disagree with that both proposals. Germany: Agree to both proposals - either delete the definition or, if no deletion is made, Regarding proposal 1, the removal of PCM will disturb a lot the market which is the requirements for incomplete machines to be equated to those of the complete used to use this notion. This proposal doesn't bring added value in terms of machine. Denmark: Agree to Proposal 1. safety. This will not clarify also some specific cases of equipment which are still controversial at European level regarding their legal status i.e. PCM or NB: Agree to Proposal 2 - for machinery such as pumps, compressors, centrifuges, HVAC systems and hydraulic power units placed on the market as PCM, the obligations to machinery. complete the conformity assessment procedure are transferred to the employer/operator who is often unaware of this matter. Regarding proposal 2, there is no need to clarify the differences between PCMs Most respondents would prefer a more clearly defined term of "specific application", e.g. and Interchangeable equipment. The definitions are sufficiently clear enough. machine suitable for its intended use able to perform its function actively and safely. Moreover, the 1st alternative proposed is not correct. Indeed, it is possible to install a new PCM (e.g. conveyor) into an assembly of machinery (e.g. **Impacts** intralogistics installation, aggregate processing plant) already put into service. Benefits: saving of administrative costs by changes in documentation and additional agreements with clients or customers, estimated EUR 5,000 to 10,000. This is called a modification of an assembly of machinery in service, by addition of a new PCM. This is up to each industrial sector to develop its guidelines for illustrating by some examples the different equipment placed on the market and their respective legal status in the sense of the MD. This is not up to the MD guidelines to compile all this information. MD guidelines should concentrate on the general principles and can use few examples, aiming at understanding the principles. As a reminder, obligations for PCM are > only procedural and informative There is no conformity assessment procedure and annex I doesn't apply But there is an obligation to declare the EHSRs applied and fulfilled

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		This obligation to deliver a set of documents (relevant technical documentation as described in Annex VII, part B, assembly instructions acc. to Annex VI and a declaration of incorporation acc. to Annex II, part 1, Section B) is very important because: - it defines a minimum legal framework between the supplier of PCM and the integrator of the PCM - this information given by manufacturer of PCM, is intended to be part of the technical file of the final machine - this minimum legal framework can also help to stimulate the exchange of information during contractual discussions between the PCM supplier and the integrator and to clarify at an early stage all the technical specifications expected by the future PCM. The PCM concept is very important especially for assemblies of machinery.
21	Annex II Declarations - PCM In connection to Proposal 2	

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° France: Annex II B. DECLARATION OF INCORPORATION OF PARTLY COMPLETED **[EVOLIS] Fully disagree** because a PCM is only intended to be integrated into a MACHINERY This declaration and translations thereof must be drawn up under the same machinery or an assembly of machinery. This is the reason why the fulfilment of an EHSR at the PCM stage does not necessarily presuppose fulfilment of that conditions as the instructions (see Annex 1, section 1.7.4.1(a) and (b)), and must be typewritten or else handwritten in capital letters. requirement at machine level. The declaration of incorporation must contain the following particulars: This specific legal status in the MD has been created for partly completed 4. a sentence declaring which essential requirements of this Directive are applied and machinery because PCM have no specific application while it is not the case of a fulfilled and that the relevant technical documentation is compiled in accordance with part machinery. PCM are only intended to be incorporated into a machinery or an B of Annex VII, and, where appropriate, a sentence declaring the conformity of the partly assembly of machinery, so a PCM cannot be considered like machinery. completed machinery with other relevant Directives. These references must be those of the texts published in the Official Journal of the European Union. Partly completed It makes no sense to ask a manufacturer of partly completed machinery to apply machinery cannot claim to meet the requirements of this Directive without satisfying any the whole Annex 1 because this partly completed machinery is intended to be integrated into machinery for which there will be an overall risk analysis. essential requirements; KAN/NB: The following should be specified in the directive: The manufacturer of partly completed machinery shall fulfil all the applicable essential This doesn't mean that the manufacturer of a PCM will not address any EHSR. health and safety requirements. Why a manufacturer of a conveyor intended to be incorporated in an asphalt mixing plant shall address risks related to means of access if he doesn't know how Opinions PCM for machines intended to be inserted into production lines is expected to increase in its conveyor will be integrated in the plant? At the machine level stage, the the future. The manufacturer of the sub-assembly should provide information on which manufacturer (integrator of the PM) will analyse the risk of falling and for EHSR the PCM complies with, what hazards the PCM cannot comply with, and how to build example, depending on the height of the conveyor from the ground, he will the product together with other sub-assemblies. provide (or not) lateral means of access along the conveyor. Costs and Benefits Benefits: Increased safety and legal clarity. **Article 2 Definitions - Assembly** 22

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° [EVOLIS] Disagree with the deletion of the notion of assemblies of machinery. Proposal Addition of a NEW definition in Art. 2: 'Assembly' Stakeholders participating in the OPC most frequently mentioned that the concept of If we delete this notion, very soon some other stakeholders will ask to create a assembly is complicated to understand. Some proposals received: new term describing the concept of assemblies of machinery. We will not solve Industry association (DE): Article 2(a), fourth indent should be deleted. This part of the any difficulties related to the implementation of the legislation by a removal of definition has led to numerous discussions in practice, to claims, to conformity assessments of complex industrial plans and a CE mark for the complete system to install. If there are some discussions in practice or claims related to the conformity In Germany, the ministry responsible had published the BMAS interpretative paper. assessment of industrial plant and CE mark, it is up to the industrial sectors to Already in the first indent it becomes clear that a machine is an entity of interconnected develop guidelines. In France, the main issues we have with assemblies of parts or devices and this includes both individual parts of a machine as well as the machinery are related: assembly composed of several machines, if they are linked together in terms of safety. either to the legal status given (e.g. PCM of Machinery) to some subunits of the assembly Machinery safety consultant (NL): 'A unit consisting of components that have been fitted or the affixing of a new CE mark on an existing assembly, in case of together to perform a specific function, and that can be disassembled without destruction'. adding a new machinery connected to this assembly or replacing a subunit by a new one Manufacturer (DE): If any machinery are interlinked as a unit from a safety point of view, it In the first case, the issue must be solved by the drafting of guidelines in the should be considered as an "assembly of machinery." This assembly of machinery is to be industrial sector. considered as new machine placed on the market. However, if several machinery with In the second case, the issue is related to modification of machinery and assembly of machinery in service which is out of the scope of the MD, but part individual functions on a handling process are installed and can be used independently, they are rather to be considered as a "group of machinery". If an emergency stop affects of the implementation of the user's legislation. this machinery when activated, and this is not required from a safety viewpoint, it is not an "assembly of machinery" but a "group of machinery". Machinery safety consultant (IT): "Assembly of machinery should specify if it applies also to temporary installation of machinery and control systems, potentially interchangeable and if - in this case - a specific DoC of the assembly of machinery is required for every possible configuration. An example of this are hundreds of chain hoists combined with controllers, integrated for rigging installations and controlled with a unique control device". **Article 2 Definitions - Installer** 23

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	Proposal Addition of a NEW definition in Art. 2: 'Installer' Should the role of an installer can be added similarly as it is arranged in the Lifts Directive? According to some, the Guide to the MD already covers the activity of an installer in 2 sections (§36 Machinery supplied without connection components and §264 Assembly, installation and connection).	[EVOLIS] We don't see the need for such definition in the MD. Moreover, the adoption of the New Legislative Framework should help the alignment of definitions and clarify responsibilities of stakeholders.
	Spain: suggested it would be useful to include the role of an installer. They face issues with the installation of assemblies such as slow speed lifts; they think the directive should extend certain obligations to installers, similarly to what is done in the lifts directive. Spain to provide concrete suggestion and data.	
	Proposal from a manufacturer: "No, an installer would have to follow the instruction of the OEM and all required instructions are sufficiently covered by the current MD. Spain faces issues with the installation of assemblies such as slow speed lifts; they think the directive should extend certain obligations to installers, similarly to what is done in the lifts directive. Special roles for installer leads to splitting of responsibility and finally to confusion. One additional remark to this question: Full adoption of the New Legislative Framework will help the alignment of definitions". Proposal from workers and employers' representatives: "Yes, but only for some limited cases, i.e. not just for an installer who only places a complete machine on a floor and may just bolt it down. However, where the installation is critical for safety, then this would make sense. In general, we consider this is only needed for a small sub-set of machinery such as platform lifts". COM: Lifts Directive deals only with one type of product.	
24	Article 2 Definitions - Safety function	
	Proposal - France Addition of a NEW definition in Art. 2: 'Safety function' (x) 'safety function' means a function which has an active effect on the risk, such that its failure may immediately result in a heightened risk. A simple warning system does not perform a safety function under this definition;	[EVOLIS] We don't see the added value of that proposal because the notion of safety function is already defined in EN ISO 12100-1 as following: « safety function function of the machine whose failure can result in an immediate increase of the risk(s) ». With the current existing definition, it is clear that a simple warning system does not perform a safety function.

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25	Article 2 Definitions – Substantial modification	

Proposal

Addition of a NEW definition in Art. 2: 'Substantial modification' Opinions

Poland: YES - The inclusion of criteria relating to machinery in the Directive will make it possible to avoid differences of interpretation in this respect.

Denmark: There should be flexibility in managing this, because 1) the vast majority of these machines are being modified in production companies and 2) these machines are in use (hence not placed on the market). It is very burdensome for a user undertaking to relabel the entire machine as it is not possible to make the change only.

Germany: This does not need to be regulated in the Directive or in the guide. Since most of the changes are made to machines in use and not in view of their placing on the market, the impact on the European single market is therefore low. A list of possible items could only be exemplary and would not be able to answer all the questions. It seems preferable to provide an appropriate analysis of the risks and risks arising from the change and of the measures to be taken. It is sufficient for the individual Member States to make their own interpretations. France: NO – France is not in favour of this option. There are no operating criteria unless the rebuilding is considered to be a substantial change. The Directive also applies in the case of re-building; this concept corresponds to the intention to design a new machinery for a shorter application. Each function of the machinery is specified by the designer. For example, designing a machine for spraying water on work by using the existing chassis of a dumper truck. Switzerland: the amendments should be made or included in the Guide rather than in the Directive - If a change is made to a machine, a risk assessment is required. If the risk assessment shows that new or higher risks arise as a result of the change, corresponding mitigating measures shall be ordered and taken and the amended product shall be considered to be a new one.

Suggestions to solve this issue:

- re-introduce the whole annex (at least the extract given above) of the old version of MD guidelines which was very helpful in terms of general principles <u>AND</u>
- 2) considering accidents data, as a first priority, define the notion of "modification" which is a notion that belongs to the user's legislation

Indeed, there are accidents occurring in the field because of modifications of machinery which are done without any correct risk assessment. This is typically the case for attachment fitted to a base machinery by a user without any consideration of the instructions given by OEMs of the base machinery and attachment. There are frequent initiatives and discussions to deal with the adequation of base machinery and attachment that illustrates that aspect which takes its origin in the result of "bad" modifications coming from the field.

→ This is why we strongly believe that it would be much more useful for health and safety of workers to have a definition of a "modification of a machine in service" in the legislation applicable to the use of work equipment, i.e. the Directives 2009/104/EC of 16 September 2009 and the Health and Safety at Work Directive framework 89/391/EEC

[EVOLIS] Fully disagree for the following reasons:

- 1) About the concept of substantial modification and the practices in the field There are some discussions since several years now at EU level on this matter and despite the frequent request to get some concrete example, we still don't have any real case to illustrate this concept.
- → Since the beginning, we believe that 'substantial modification' is a theoretical concept which has no link with the real life. This is the reason why we don't expect to obtain any concrete example to illustrate it.

We must also remind that it may happen sometimes that a modified machinery is subject to a new CE marking. It is true that this practice may exist more or less in some countries, but we must be very clear on the fact that this practice is a strong misuse of the CE marking which is reserved exclusively for new machinery intended to be placed for the first time on the EU market.

This bad practice consisting of affixing a new CE mark on machinery in service is the result of a lack of requirements and guidelines in the user's legislation.

- → So this bad practice cannot be used as an example to justify the need to create a new definition related to substantial modification
- 2) If this concept really exists and if it is introduced in the MD, it could only lead to a market for new machines competing unfairly with a market for fake new machines (second-hand machines "CE" re-marked) with as a final outcome, a total destruction of the market of new machinery
- **3)** "No re-invent the wheel". Indeed, the 1st version of the application guide of the MD 98/37/EC had already investigated this concept, which was called "reconstruction" or "transformation" (see extract below in italic font).

Concept of "reconditioned" machinery (i.e. remanufacturing)

In most languages spoken in the European Union, the words describing reconditioned machinery start with a prefix which indicates the repetition of an action of the return to a prior situation (retro). Reconditioned machinery, is existing machinery which has undergone technical work designed to modify its condition, its performance, its safety, etc. This work may consist of modifying the machinery to a greater or lesser extent.

Superficial reconditioning consists of modifying certain parts of the machinery and of changing worn parts.

Concept of "reconstructed" or "rebuilt" machinery

"Reconstructed" or "rebuilt" machinery is new machinery consisting entirely or in part, of parts taken from old machinery.

Can European technical regulations be applied to second-hand or reconditioned machinery ?

"New approach" Directives were designed exclusively for new products or for products regarded as new. Application of "new approach" Directives to second-hand products might result in a loss of credibility for the "CE" marking.

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26	Article 2 Definitions – State of the art	
	Addition of a NEW definition in Art. 2: 'State of the art' The concept of "the state of the art" is crucial as it implies that EHSRs are not absolute, hence a manufacturer must strive to achieve the EHSRs' objectives to the furthest extent possible according to the current technical and economic status. The technical solutions adopted to fulfil the EHSRs must employ the most effective technical means that are available at the time for a cost that is reasonable taking in account the total cost of the category of machinery concerned, the seriousness of harm machinery can entail and the risk reduction required to address it. This also means "the state of the art" considered for the machinery when it was built might no longer be valid in the future. Does 'state of the art' require a definition / an "economic" definition? Opinions Most respondents do not consider necessary to include a definition in the legal text. Denmark: It can be explained in the MD guide.	[EVOLIS] Regarding a proposal for a definition of "state of the art", if it is really needed, we believe that it would be sufficient to define the state of the art in the MD guidelines.

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° 27 **Article 2 Definitions – Specific application** [EVOLIS] We believe that the guidelines of the machinery directive 98/37/EC Proposal - France Addition of a NEW definition in Art. 2: 'Specific application' titled "Comments on Directives 98/37/EC » was clear enough to understand this France: The current definition of application is set out in the guide for the application of concept and we propose to reintroduce (see extract below in italic font) the text the Machinery Directive (comment 35 of the Guide version 2.1 July 2017); machinery must related to the example of motors and motorized valves, in a new version of the be able for a specific application as applying to the complete machine and its intended use. MD guidelines: Specific applications include, for example, the processing, treatment, or packaging of materials, or the moving of materials, objects or objects. It is a very broad definition of the 64. It is not always easy to apply the definition of "machinery" in practice. machine which treats it as its basic function; the concept is therefore identical to that of An internal combustion engine, for example, supplied to be built into a machine, quasi-machinery. is not "machinery" within the meaning of the Directive since it has no definite The French proposal gives a more restrictive definition which introduces the concept of application before it is built in. An outboard motor, with its propeller, sold direct use defined by the manufacturer: fitted or intended to be fitted with a drive system, other to the user, on the other hand, has a definite function of propelling a vessel, than directly applied human or animal force, consisting of linked parts or components of without modification or other operation by a specialist. Outboard motors are which at least one is mobile and which are jointly and severally bound for its application covered by the Directive whereas in-board motors for propelling boats are not! defined for a purpose defined by the manufacturer. "Machinery with heat engines for use in underground working" referred to in **Opinions** Annex IV of the Directive is the only exception to this rule. These motors have NB: Definition of 'Specific application': Process that transforms a product as a result of been included in the Directive pending the Directive on equipment intended for operations performed by the machine. Lifting of persons and/or goods. use in an explosive atmosphere. Denmark: it is not necessary to define the concept. Guidance should be adequate. In our view, if the machine is designed to function autonomously, i.e. it can function without 65. The issue is even more ambiguous with products such as motorized valves being part of a machine or assembly of machines, it has a defined use. since it is the intended end use of the product which determines whether or not it Germany: It is considered difficult to find a generally valid definition. The term should not is covered by the Directive. This use is sometimes laid down by the manufacturer be defined in the Directive. There should be an interpretation of the term in the guide. of the motorised valve where it is a separate whole machine. 66. In most cases the manufacturer of the motorised valve does not stipulate a particular use, and thus the following rule can apply. If a motorised valve, such as a lock gate valve sold as such, is installed in isolation, it is covered by the Directive because it has a definite application as supplied. It is the principal part of the lock gate and guarantees correct operating. If a motorised valve intended to be incorporated in a machine or an assembly is sold to a manufacturer of machinery or more complex assemblies where "CE" marking is required under the "machinery" Directive, it should not be regarded as machinery within the meaning of the Directive but rather an ordinary component. Where necessary it will be accompanied by a manufacturer's declaration as refereed to in Annexe II.B

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29	Annex I – General Principles	
	Proposal – Notified Bodies NB MD VG8 - Vehicles servicing lifts & VG9 - Lifting persons device: The verifiability of safety-related parts/components and functions must be a product requirement. GENERAL PRINCIPLES 1. The manufacturer of machinery or his authorised representative must ensure that a risk assessment is carried out in order to determine the health and safety requirements which apply to the machinery. The machinery must then be designed and constructed taking into account the results of the risk assessment. By the iterative process of risk assessment and risk reduction referred to above, the manufacturer or his authorised representative shall: — determine the limits of the machinery, which include the intended use and any reasonably foreseeable misuse thereof, — identify the hazards that can be generated by the machinery and the associated hazardous situations, — estimate the risks, taking into account the severity of the possible injury or damage to health and the probability of its occurrence, — evaluate the risks, with a view to determining whether risk reduction is required, in accordance with the objective of this Directive, — eliminate the hazards or reduce the risks associated with these hazards by application of protective measures, in the order of priority established in section 1.1.2(b), — design safety-related parts/components and functions of a machine testable and verifiable	[EVOLIS] Not evaluated.

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30	Annex I - 1.1.6. Ergonomics	
	1.1.6. Ergonomics Under the intended conditions of use, the discomfort, fatigue and physical and psychological stress faced by the operator must be reduced to the minimum possible, taking into account ergonomic, human factors, and usability knowledge and principles such as: — allowing for the variability of the operator's physical dimensions, strength and stamina, — providing enough space for movements of the parts of the operator's body, — avoiding a machine-determined work rate, — avoiding monitoring that requires lengthy concentration, — adapting the man/machinery interface to the foreseeable characteristics of the operators, — involving users during machinery design and development.	[EVOLIS] Regarding 1st proposal, would it be possible to clarify the background for such change? what means "usability knowledge"? [EVOLIS] Concerning the 2nd proposal, the feedback from users shall be organized in such a way that we can capture in a consolidated way the different areas of progress and their priorities at national or European level. This feedback shall also be analysed by standard makers who are close to engineering teams of manufacturers. This is the reason why we believe that the European standardisation process is the most relevant platform able to address this challenge. And this is already a practice today, for example in the construction machinery sector where users are regularly invited to take part to the standardisation process, at national level, European level and sometimes international level, in order to get their feedback, because concrete safety issues coming from the field are always interesting to take into account. For this reason, we agree in principle with this idea, but this is up to the standardisation process (at least at national level) to involve users in discussions related to the design of future machines. In addition, this feedback is also organized in each manufacturing company in order who all wants to improve the development of their future machinery. We don't believe that such adding in the principles of safety integration of the MD will help at involving users. The real challenge is more a fieldwork sector by industrial sector to explain and motivate users in European standardization.
31	Annex I - 1.1.2. Principles of safety integration	

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	Proposal 1 - France	[EVOLIS] Proposal 1
	1.1.2. Principles of safety integration	We don't see any added value in MD (same explanation as given in item 30).
	(a) Machinery must be designed and constructed so that it is fitted for its function, and can	
	be operated, adjusted and maintained without putting persons at risk when these	
	operations are carried out under the conditions foreseen but also taking into account any	
	reasonably foreseeable misuse thereof.	
	The aim of measures taken must be to eliminate any risk throughout the foreseeable	
	lifetime of the machinery including the phases of transport, assembly, dismantling,	
	disabling and scrapping. ()	
	(e) Machinery must be supplied with all the special equipment and accessories essential to	
	enable it to be adjusted, maintained and used safely.	
	(f) the machinery must be designed taking account of actual feedback from users on	
	previous models or similar machinery.	[EVOLIS] Proposal 2
	Proposal 2 - ETUI	No opinion.
	1.1.2. Principles of safety integration	
	(a) Machinery must be designed and constructed according to human-centred principles so	
	that it is fitted for its function, and can be operated, adjusted and maintained without	
	putting persons at risk when these operations are carried out under the conditions	
	foreseen but also taking into account any reasonably foreseeable misuse thereof.	
	The aim of measures taken must be to achieve productive, safe, usable machinery, and to	
	eliminate any risk throughout the foreseeable lifetime of the machinery including the	
	nhases of transport assembly dismantling disabling and scrapping	

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° [EVOLIS] As a remark, the amendment proposal is not as it appears in the left Proposal - France Update of EHSRs as per Directive No. 2013/35/EU of 26/06/13 on the minimum health and column. Considering the existing text of MD, the real amendment shoud be: safety requirements regarding the exposure of workers to the risks arising from physical "Each notice must contain, where applicable, at least the following information: agents (electromagnetic fields). (....) 1.5.10 Radiation (w) where the machinery is likely to emit functional electromagnetic fields or "Each notice must contain, where applicable, at least the following information: (....) low-frequency electromagnetic fields non-ionising radiation which may cause an (w) where the machinery is likely to emit functional electromagnetic fields or low-frequency adverse or harmful effect on persons, in particular persons with active or nonelectromagnetic fields which may cause an adverse or harmful effect on persons, in active implantable medical devices, information concerning the radiation particular persons with active or non-active implantable medical devices, information on emitted for the operator and exposed persons on the level of electrical, magnetic or electromagnetic fields in a form to assist the user in conducting the risk the level of electrical, magnetic or electromagnetic fields in a form to assist the user in conducting the risk assessment pursuant to Directive 2013/35/EC. assessment pursuant to Directive 2013/35/EC. 33 Annex I - 1.7.4 Instructions - paper and/or digital (part 1)

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	Proposals Always a printed user manual Printed manual should be available on demand only Access to a digital user manual (online or displayed by the product) A short printed Quick-Start Guide and an access to a more in-depth online user manual Costs and Benefits In case of digital format for instructions: Manufacturers: (+) economic operators would have lower paper, printing and shipping costs in relation to the user manuals. These cost savings, however, might be balanced out through the costs of developing the relevant digital tools for the manuals and the maintenance of the access. Positive environmental impact, reduced burden and costs and facility to provide instruction updates. (-) Main risk remaining is the availability of the online manual if a manufacturer ceases to exist during the lifetime of the machinery, and how to make sure the user manual available is the right version. Users and workers: (+) Digital versions of the manual might be easier to read such as through the search function or the manufacturer's possibility to enhance the format or provide additional information. (-) Digital documentation would provide additional burden to access the information, which could lead to less reading of the manuals and thus increase the safety risks. Certain groups such as less digitally savvy users or workers without internet access in certain environments could have difficulty to access the manuals. Allowing printed user manuals	[EVOLIS] - Just some considerations Today, paper manuals are almost never present in machines and rarely read in their entirety. An electronic version of the instructions detailed manuals could suffice and would avoid printing all these manuals. Especially since the state of the art is changing and operators are now more comfortable with reading on a screen than on a printed document e.g. using a search engine. The use of means of communication such as smartphones has become widely democratized in companies, it would therefore be more coherent to facilitate access by more modern means. This would also reduce costs for manufacturers and the impact on the environment, by a reduction in paper consumption. It should be pointed out that in the field of non-road mobile machinery, they are now often with onboard screens at the driver's station. The development of man-machine interfaces Ergonomic cabin design allows for digital storage of instructions and the use of a digital display guides or quick start checklist. In general, the more machines are complex, the more the content of the instructions is huge/voluminous. However, operators only take the time to read the instruction manual, only if it's simple and concise. The Quick Start Guide falls within these criteria. This guide could refer to the full notice with a means to access it. The advantage of the digital manual is that it remains available in case of loss or poor condition of the printed version. The paper format could nevertheless remain indispensable in certain situations where operators would not have access to a computer on board the machine or to wifi access. It should also be taken into account that in some places, internet access is blocked for security reasons (military, nuclear sites, etc.).
34	Annex I - 1.7.4 Instructions - paper and/or digital (part 2)	
	Opinions Czech Republic, Denmark, Finland, Netherlands, Poland, Portugal, Romania, Slovenia: Short printed Quick-Start Guide + access to a more in-depth online user manual. Belgium, Cyprus: Access to a digital user manual (online or displayed by the product). France, Poland and Sweden: Access to manual on external device such as DVD/USB stick Germany: This should be left open depending on the type of machinery and its use. It must be ensured that a purchaser of a machine is provided with the printed user manual of the last supply chain (manufacturer, distributor) without additional effort. An obligation should therefore be included so that a paper user manual shall be supplied at the end user's request at no additional cost.	[EVOLIS] See above

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	Denmark: If a Quick Start Guide in paper form delivered with the machine is agreed, then the Quick Start Guide should as a minimum contain the following information: The business name and full address of the manufacturer and of his authorized representative; The designation of the machinery as marked on the machinery itself; A description of the intended use of the machinery; Warnings concerning ways in which the machinery must not be used that experience has shown might occur; Safety information (to be further specified in the guide); Instructions for transport, assembly and installation, depending on a risk assessment; Technical data (weight, power etc.); Noise and vibration information; The contents of the EC declaration of conformity; Unique link to download access of the hole instruction manual, if the manual is not supplied in electronic form together with the machine; A paper version should always be available free of charge for the consumers who request it. Switzerland: The form of the instructions must be user-specific. Useful to introduce more flexible forms of flexibility.	
35	Annex I - Chemical risks Proposal - France	

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1.7.4.2 Content of the instructions

(r) the description of the adjustment and maintenance operations that should be carried out by the user and the preventive maintenance measures that should be observed taking account of the restrictions and actual and foreseeable working conditions, the description of the adjustment and maintenance operations that the user must perform and the preventive measures that must be observed"

(s) instructions and operational methods designed to enable adjustment and maintenance to be carried out safely, including the protective measures that should be taken during these operations. (w) the following information on emissions of hazardous substances from the machinery:

the characteristics of the capturing, filtration or discharge device when not provided with the machinery, and the flow rate for the emission of hazardous materials and substances from the machinery, or the concentration of hazardous materials or substances around the machinery, or the effectiveness of the capturing or filtration device and the conditions to be observed to maintain its effectiveness over time. These values are either actually measured for the machinery in question or established based on measurements taken from machinery that is technically comparable, which is representative of the machinery to be produced.

2.2 Portable hand-held and/or hand-guided machinery, 2.2.1. General Portable hand-held and/or hand-guided machinery must: The handles of portable machinery must be designed and constructed in such a way as to make starting and stopping straightforward. The portable machinery must have a device to capture emissions of hazardous substances at the source, if required.

3.5.3. Emissions of hazardous substances

The second and third paragraphs of section 1.5.13 do not apply where the main function of the machinery is the spraying of products. However, the operator must be protected against the risk of exposure to such hazardous emissions.

Mobile machinery designed for spraying or likely to be used for spraying chemicals must be equipped with filter cabins.

[EVOLIS] Disagree because we don't see the added value of that adding "taking account of the restrictions and actual and foreseeable working conditions" because, restrictions of use, foreseeable working conditions are part of the risk assessment and everything described in the instructions is the result of this risk assessment and the adding "the description of the adjustment and maintenance operations" is a repetition of the existing requirement".

[EVOLIS] Disagree with the adding of new item w),.

[EVOLIS] Disagree with that proposal on portable machinery.

This adding creates a very huge impact in terms of design and manufacturing of portable machinery which are small machinery that are expected to fulfil important ergonomics requirements, in terms of weight and manoeuvrability for example. The exposure of operators to dust or hazardous substances may be reduced by design on larger machinery, where it is possible to fit additional protective measures, but not on very small machinery. It is also a duty for the OEM to remind and give some recommendations in their instructions. But, this risk of exposure is also a duty for employers who have to take appropriate measures on jobsites for the operators. This must be done by the provision of appropriate PPE, organisational measures (staff turnover) or the provision of additional equipment intended to reduce this exposure (e.g. water spraying/sprinkling equipment). It is not technically possible to eliminate or reduce all risks by design. Some risks are inherent to the process itself and cannot be considered only in the light of the machinery directive. [EVOLIS] Disagree with 2nd proposal on mobile machinery. First of all, mobile machinery don't exist legally speaking because there is no definition. There is only an annex dealing with hazards due to mobility of machinery. It is

technology oriented while the MD shall be written in a neutral way.

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36	Annex I - Vibrations	
	Proposal - Sweden 2.2.1.1. Instructions The instructions must give the following information concerning vibrations transmitted by portable handheld and hand-guided machinery: — the vibration total value to which the hand-arm system is subjected, if it exceeds 2,5 m/s2. Where this value does not exceed 2,5 m/s2, this must be mentioned, — the uncertainty of measurement. 9.6.2006L 157/50 Official Journal of the European Union EN These values must be either those actually measured for the machinery in question or those established on the basis of measurements taken for technically comparable machinery which is representative of the machinery to be produced. If harmonised standards are not applied, the vibration data must be measured using the most appropriate measurement code for the machinery. The operating conditions during measurement and the methods used for measurement, or the reference of the harmonised standard applied, must be specified. Sweden: there is a need to provide requirement for measuring and declaring peak value vibrations from percussive tools, or tools that have both rotating and percussive action. The value of 2.5 m/s2 is assumed to be valid for all types of vibrating machinery. Sweden to provide concrete proposal.	[EVOLIS] No opinion at this stage
37	Annex I - Electrical risks - Overhead power lines	

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° **[EVOLIS]** Disagree with that adding because this risk is already covered in a Proposal - France France: Additional EHSR 3.5.4 Overhead power lines more general way in clause 1.1.7 Operating positions where it is stated: Mobile machinery is designed and manufactured so as to prevent the risk of contact with 1.1.7 Operating positions live overhead power lines or the risk of electrical arcina between any part of the machinery or an operator driving the machinery and an energized overhead power line under normal If the machinery is intended to be used in a hazardous environment presenting operating conditions and foreseeable misuse. risks to the health and safety of the operator or if the machinery itself gives rise When the risk of contact cannot be fully avoided, the machinery shall be designed and to a hazardous environment, adequate means must be provided to ensure that the operator has good working conditions and is protected against any constructed so as to prevent any electrical hazards in the event of contact with an foreseeable hazards. energized power line. Mobile machinery especially designed to perform work under power shall be designed and Such risks may include, for example, exposure to hot and cold atmospheres, to manufactured so as to prevent any electrical hazards in the event of contact with an risks due to noise, radiation, humidity, adverse weather conditions or energized power line under normal operating conditions and foreseeable misuse. atmospheres polluted by hazardous substances. This section also covers the risk of electric shock due to overhead lines in the operating area. The manufacturer must therefore take account of the intended and foreseeable conditions of use of the machinery. 38 Annex I - 3.2.1. Driving position & 3.2.2 Seating [EVOLIS] - TBD Proposal - France 3.2.1. Driving position Internal remark: We believe that this proposal is fork-lift truck oriented but it Visibility from the driving position must be such that the driver can, in complete safety for may cover other type of mobile machinery with ride on operator. We know that himself and the exposed persons, operate the machinery and its tools in their foreseeable there are frequent accidents occurring after tipping over of fork-lift trucks and conditions of use. Where necessary, appropriate devices must be provided to remedy where the operators are crushed between the machinery and the ground, hazards due to inadequate direct vision. because of not use of the seat belts. The challenge is to keep the operator inside Machinery on which the driver is transported must be designed and constructed in such a the envelope space in the cab, in case of tipping over. That's why another way that there is no risk of driver ejection from the driving position and there is no risk to protective means considered as more efficient in some situations to achieve this the driver from inadvertent contact with the wheels and tracks. goal is the use of a gate. Such gate is also a restraint system and it is recognised 3.2.2 Seatina by INRS and social insurance organisms in France to be efficient. Where there is a risk that operators or other persons transported by the machinery may be crushed between parts of the machinery and the ground should the machinery roll or tip over, in particular for machinery equipped with a protective structure referred to in section 3.4.3 or 3.4.4, the machinery their seats-must be designed or equipped with a restraint system so as to keep the persons in their seats and in the protective structure, without restricting movements necessary for operations or movements relative to the structure

See INRS documentation ED 125

caused by the suspension of the seats. Such restraint systems should not be fitted if they

It must not be possible for the machinery to move if the restraint system is not active.

increase the risk.

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39	Annex I - 6.2. Control Devices (part 1)	
	Proposal – Germany (BAuA) 6.2. CONTROL DEVICES Where safety requirements do not impose other solutions, the carrier must, as a general rule, be designed and constructed in such a way that persons in the carrier have means of controlling upward and downward movements and, if appropriate, other movements of the carrier. In operation, those control devices must override any other devices controlling the same movement with the exception of emergency stop devices. The control devices for these movements must be of the hold-to-run type except where the carrier itself is completely enclosed. Either to delete the last sentence of 6.2 or to change it: a) The control devices for these movements must be of the hold to run type except where the earrier itself is completely enclosed. Reasoning: This limits the technologies to be used to either a completely enclosed carrier or to hold-to-run devices. This was state of the art at the time when the Machinery Directive came into force. But with this requirement modern safety sensors are excluded. b) The control devices for these movements must be of the hold-to-run type except where the carrier itself is completely enclosed. If there is no risk of the persons on the carrier colliding, the said devices may be replaced by control devices authorising automatic stops at pre-selected positions without the operator holding a hold-to-run control devices must be used to control the movements of the machinery or its equipment. However, for partial or complete movements in which there is no risk of the load or the machinery colliding, the said devices may be replaced by control devices authorising automatic stops at pre-selected positions without the operator holding a hold-to-run control device.]	[EVOLIS] Not evaluated

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40	Annex I - 6.2. Control Devices (part 2)	
	Opinions Netherlands: Rules should not prescribe the pressing of a button. Also the pressing of the button is not the benchmark. The ESHR should be that falling from the platform should be prevented. In addition, hold-to-run are often easy 'to manipulate' or overrule. A new innovation may be probably safer. Outcome from the consultations: The effects of redefining the requirements for completely enclosed carriers and hold to run controls for slow speed lifts were considered to be difficult to assess as it was indicated to be different depending on the type of product. While certain slow speed lifts might be provided with alternative control systems reaching the same or higher levels of safety, it was considered that these innovative systems might not suffice to prevent a falling of persons or goods. In the latter case, the effectiveness of the MD to ensure health and safety of users would decrease. Adjusting the requirements might improve the use of innovative technologies for lifting products but it was considered beneficial to make a distinction between product types, having those intended for the general public and the lifting of persons in particular, be always subject to third-party conformity assessment. NB: The possibility of a support that is not completely closed must only be left to the machines for professional use (goods lift) and not for lifts with v <0.15 m/s which are known to be used by everyone, including children and animals. The intervention times of the photoelectric barriers (and in general of the associated safety functions) must be equivalent to those of the safety buttons. Possible openings can cause independent variation of speed of ascent / descent of the load support.	[EVOLIS] Not evaluated
41	Index	
	List of areas: o New technologies o Scope and borderlines with other directives o Definitions o Annex I Essential Health and safety requirements o Annex IV o Annex V, VI, VII, VIII • Per each area, information is provided on: o Inputs received from stakeholders o Outcomes of the on-going Impact Assessment o Commission comments based on the above	

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42	Annex IV (part 1) Proposal - France	
	Removing the self-assessment procedure based on harmonized standards for Annex IV type of machinery, for which conformity assessments remain difficult to do. 3. Where the machinery is referred to in Annex IV and manufactured in accordance with the harmonised standards referred to in Article 7(2), and provided that those standards cover all of the relevant essential health and safety requirements, the manufacturer or his authorised representative shall apply one of the following procedures: (a) the procedure for assessment of conformity with internal checks on the manufacture of machinery, provided for in Annex VIII; (b) the EC type-examination procedure provided for in Annex IX, plus the internal checks on the manufacture of machinery provided for in Annex VIII, point 3; (c) the full quality assurance procedure provided for in Annex X." Opinions Finland and Romania: YES. Self-assessment increases the workload of public authorities. Netherlands: YES. Standards do not describe all hazards involved with the design of machinery. Poland: YES. There have been cases where the manufacturer has made conformity assessments based on standards which did not contain all the relevant safety requirements for the group of machinery concerned. Germany: NO. Standards must contain the same safety requirements as otherwise assessed by a notified body. If existing standards consider all relevant hazards and the manufacturer implements the recommended protection measures, there are no concerns. Denmark: NO. Have no basis to say that self-assessment according to harmonised standards provides a lower level of security. Sweden: NO. Impact Assessment: Lack of accident data backing up the change.	[EVOLIS] As a first remark, this amendment proposal deals with article 12 and not the annex IV itself. Disagree with that proposal for the following reasons: Annex IV of the Directive sets out a strict list of categories of machinery which may be subject to one of two conformity assessment procedures involving a notified body (EC type-examination or full quality assurance) or to self-assessment by the manufacturer when they are manufactured in accordance with harmonised standards which cover all the relevant EHSR. Where machinery listed in Annex IV is manufactured in accordance with harmonised standards which cover all the EHSR, the possibility of self-assessment by the manufacturer does not give rise to safety concerns and the removal of this possibility would have an impact on costs.
43	Annex IV (part 2)	

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	Update Annex IV	
	France:	[EVOLIS]
	i) Add some machinery to Annex IV. In this context, there is some farming machinery to	Not directly concerned, except if the motivation is linked with a risk due to
	propose (chippers, spreaders and balers in particular). Add a new point to the machinery	mobility.
	of Annex IV: "24. Combination or assembly of machinery containing at least one item of	
	machinery from points 1 to 23, if the composed assembly does not eliminate the risky	
	component associated with this machinery (for example manual loading or unloading)."	
	ii) Establish cross-cutting machinery categories with certain risks and propose that a	
	European group be set up (see next slide).	
	Netherlands: Annex IV to be changed in hazard categories instead of a limited list of	
	machinery. Finland: Approach similar to PPE Regulation: replace the current Annex IV with	
	the classification of machinery into categories according to risk and/or function of the	
	machine. The conformity assessment procedures are done for each category separately	
	(see next slide).	
	Lifts NB: Lift appliances to be added to Annex IV. A significant difference between lifting	
	appliances according to the Machinery Directive and lifts according to the Lifts Directive is,	What means lift appliances ?
	beside the speed, the design of the load carrier. While a fully closed load carrier is	Need feedback from OEM
	mandatory for lifts (according to the Lifts Directive), a load carrier for lifting appliances	
	(according to the Machinery Directive) can be a platform without any wall, door or ceiling.	
	MD NB (VG8 Vehicles servicing lifts VG9 Lifting persons device):	
	i) Add Escalators and moving walks. These are machines with similar or greater high risk	What means escalators and moving walks ?
	factor and potential for danger than comparable other machines, such as stairlifts for	Need feedback from OEM
	disabled persons. They have unrestricted, public access and are intended to be used by	
	unskilled persons/laypersons without instructed personnel. They have crushing and	
	shearing points. There are high risks in case of failure of the controls. ii) Add Cranes with a	Which type of cranes are concerned ?
	load moment >150 kNm. In Germany in 2016 there were 1180 accidents at work with	Need feedback from OEM
	cranes, winches, loading arms on carrier vehicles. With loads on cranes this hazard	
	potential there were also a four-digit number of accidents.	
	Germany: Deleting or adding categories of machinery, depending on the risk. A complete	
	deletion of Annex IV is still possible.	
	Denmark: Annex IV should remain unchanged. Deletion could lead to more dangerous	
	machines on the market. Expanding the scope will be costly for the industry.	
	Impact Assessment: Lack of accident data backing up the changes.	
	Annex IV (part 3)	

Page WG-2020.03 - Proposals for the revision of the MD rev1 **EVOLIS comments (last update: 04/03/2020)** n° Proposal from France - Option ii) 1. Machinery for cutting and working wood or meat. (replaces points 1 to 8) [EVOLIS] Item 1. Not concerned 2. Machinery with a risk of crushing/compression related to manual loading/unloading. **[EVOLIS]** Item 2. **Disagree** with this proposal because the wording is so wide that it may concern a lot of machinery. This list must be machine type oriented (replaces p. 9 to 11 and 13) 3. Machinery for underground working of the following types: (identical to point 12) 3.1. and not formulated as a list of risks locomotives and brake-vans; 3.2. hydraulic-powered roof supports. 4. Removable mechanical transmission devices including their guards. (identical to point 14) 5. Guards for removable mechanical transmission devices. (identical to point 15) 6. Machinery used to perform operations under a load or a vehicle. (replaces point 16) [EVOLIS] Item 6. Disagree with this proposal because the wording is so wide 7. Machinery for the lifting of persons or of persons and goods involving a hazard of falling that it may concern a lot of machinery. The wording for machinery shall be formulated in terms of specific application. "Vehicle servicing lifts" seemed to from a vertical height of more than three metres (identical to point 17) 8. Portable cartridge-operated fixing and other impact machinery. (identical to point 18) be more precise compared to the new formulation which may be relevant for a 9. Protective devices designed to detect the presence of persons. (identical to point 19) lot of lifting machinery (e.g. cranes) 10. Power-operated interlocking movable guards designed to be used as safeguards in machinery referred to in section 2. (identical to point 20) 11. Logic units to ensure safety functions. (identical to point 21) 12. Roll-over protective structures (ROPS). (identical to point 22) 13. Falling-object protective structures (FOPS). (identical to point 22) 14. Mobile machinery [EVOLIS] Item 14. Fully disagree with the adding of mobile machinery or or machinery on carrying vehicles. machinery on carrying vehicles. Such matter has not been raised until now, including during the public consultation. Is there any justification to raise suddenly this item and propose an amendment in the MD for such mobile machinery? What is the reason for that inclusion? Do we have accident data justifying that inclusion in annex IV? Anyway, whatever the risky situations behind this proposal, we don't believe that a third party certification would suddenly solve safety issues that may occur in the field?

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45	Annex IV (part 4)	
	Proposal from Finland - Category I: could be placed on the market under the current manufacturer's internal control procedure. - Category II: would contain machines with higher risks and e.g. machines requiring type approval procedure and - Category III: having highest risk and belonging to scope of type examination should have in addition also obligation of the manufacturing quality assurance. It might not be necessary to have 3 categories, 2 might be enough. In general, there is no need for use of third parties before placing on the market to such type of machinery to which type examination would not improve safety. A great deal of machinery types should be possible to be placed on the market without type examination.	[EVOLIS] TBD
46	Index	
	List of areas: o New technologies o Scope and borderlines with other directives o Definitions o Annex I Essential Health and safety requirements o Annex IV o Annex V, VI, VII, VIII • Per each area, information is provided on: o Inputs received from stakeholders o Outcomes of the on-going Impact Assessment o Commission comments based on the above	
47	Annex V	
	Proposal – NB (VG8 Vehicles servicing lifts & VG9 Lifting persons device) Amend 17 g):	[EVOLIS] <u>General remark</u> : Annex V is not an identified item listed in different policy options for the revision of the MD and it has not been part of neither the public consultation nor the VVA interviews conducted last year.

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	(g) electric safety devices in the form of safety switches containing electronic components, functional safety equipment including hardware and software. Reasoning: To meet EHSR considering the fast moving technical developments in the fields of functional safety and security there is a need for the extension and modification of the non-exhaustive list of safety components to include safety-related machine control engineering equipment, functional safety equipment including hardware and software (includes mobile and desktop applications or web applications).	[EVOLIS] Disagree. The inclusion of functional safety equipment including hardware and software shall not be part of the annex V. This will increase the cost without improving safety without increasing safety. What is the rationale behind this proposal?
48	Annexes VII & VIII	
	Proposal - France Annex VII, part A, section 1, point (b) For series-manufactured machinery: Introduce a production monitoring procedure for the machinery in Annex IV to make sure there are no deviations in the production of machinery that has undergone a conformity assessment. Certain examples showed deviations between initially-certified machinery and associated types of machinery placed on the market. In addition, this type of procedure (associated with module C.2, or more restrictive module F in the Blue Guide) is used in other regulations for products for which failure may result in a permanent or fatal injury to its users (PPE regulation) Annex VIII point 3: define the notion of an internal check to specify the manufacturer's obligations regarding the manufacturing process. Non-formalized and/or unsatisfactory procedure, traceability	[EVOLIS] Disagree with the introduction of a production monitoring procedure. If there is such deviation, this means that the manufacturer has failed to fulfil its obligation. The MD is not guilty for that.