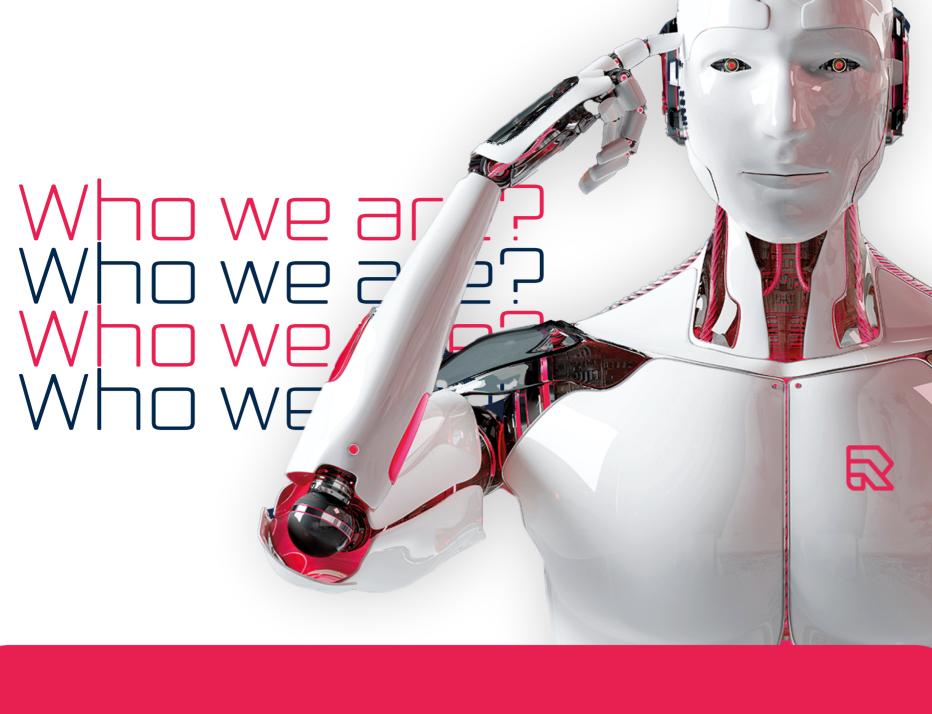


Robotics4EU Societal Readiness Plan This factsheet is based on research conducted for

Robotics4EU project" (D1.1).

the Robotics EU reports "Societal Readiness Plan of



Robotics4EU is a 3-year project funded by the European Commission under the Horizon 2020 programme. It will analyze and address non-technological

aspects that impact the adoption of robotics across four sectors:





Agile production





take into account a diverse user-base the most promising new technologies will not be used in practice.

areas. However, these technological marvels can only be

technologies do not take into account ethical concerns or

fully realized if they are broadly accepted by society. If new

unintended consequences of technology that are taken into account as the technology is refined until it is fully ready to be // broadly implemented.

technology on a scale of 1-9.

What is SRL?

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Nine-stage SRL model

SRL is a concept proposed by the Danish Board of Technology, rating how ready technology is for widespread acceptance of a

Just as normal technology development involves multiple rounds of

testing and refinement until the technology can perform the task it

was designed to do, the SRL scale involves continual consultation

with citizens and stakeholders about the ethics, desirability, or

- SRL 2. SRL 1. Formulation of the problem, proposed solution(s) and potential

SRL 4. SRL 5.

Problem validated through pilot

testing in relevant environment to

substantiate proposed impact

and societal readiness

SRL 7. Refinement of project and/or solution and, if needed, retesting in relevant environment with

relevant stakeholders

impact, expected societal

readiness; identifying relevant

stakeholders for the project

Proposed solution(s)

validated, now by relevant

stakeholders in the area

SRL 8. Proposed solution(s) as well as a plan for societal adaptation complete and qualified

stakeholders to gain initial feedback on potential impact

SRL 6.

Solution(s) demonstrated in

relevant environment and in

co-operation with relevant

SRL 3.

Initial testing of proposed

solution(s) together with

relevant stakeholders

SRL9.

Actual project solution(s)

proven in relevant environment.

2. What aspects of the solution might hinder its societal acceptance, and does the solution address these concerns? **3.** Are there any unforeseen societal consequences that are created by the solution?

Societal Readiness Plan. This helped us think critically about the broad concept of Societal Readiness Levels as they relate to robots in our four sectors. Robotics4EU will explore how the SRL scale can work in practice and advise robot makers about how specifically they can use it to improve their products, and thus, society as a whole. This is important because, although the concept of SRL is becoming more widespread, there still isn't

Just as technology is only as good as the components that go into its making, a project that seeks to define and measure societal acceptability is only useful if it engages a truly diverse group of stakeholders.

we interact with other workers on the project.

In it we posted questions to ourselves like:



How effectively are members

of diverse groups engaged at

our events-do underrepresented

groups speak up to share their

views, or remain on the sidelines?

are heard?

1. Does the robot address a problem that has been

it solve the problem?

identified by society as needing to be solved? How does

4. How might the solution effect diverse constituencies differently? How are the concerns of diverse constituencies

How diverse are the groups

of people-both citizens and

experts-that we engage

along multiple axes: age,

gender, ethnicity, sexuality,

career stage, seniority?

Maturity Assessment Model?

How are these comments How do these dynamics play out taken into consideration by us in our own internal meetings? How as we engage in our practices, can we ensure that all the diverse such as the creation of the viewpoints on our project team

> What are our own preconceived notions about robotics and the innovation process, and how can we ensure that this does not interfere with our engagement with citizens and stakeholders?

This Societal Readiness Plan will be a model for other projects and organizations for how they can structure their teams and their work, can provide an example for robust engagement with diverse stakeholders, and provide the beginnings of a framework for how the new concept of Societal Readiness Levels can be implemented.

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Factsheet #1.

Through extensive consultation and co-design sessions featuring robot producers, academic experts, and ordinary citizens, the project will chart a way towards the wider and more societally acceptable uptake of robotics, including the development of a Maturity Assessment Model that robot makers can use to estimate how socially acceptable their robot will be. Every day new robots promise to change the way we do business and conduct our daily lives across many different

Identifying the problem and identifying societal readiness.

Societal Readiness Plan in Robotics4EU One of the first activities of the Robotics4EU project was to develop a

an agreed upon methodology to measure it.

So, we will ask these

robotic technology:

questions of new

as a whole will integrate the principles of Responsible Research and Innovation (RRI) to ensure that we are intentional in how we engage diverse perspectives among citizens and stakeholders and also how

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Therefore, the Societal Readiness Plan also detailed how the project