

# COVER

Being safe around collaborative and versatile robots in shared spaces safearoundrobots.com

Action: H2020 ICT-2017-27c – Robotics Innovation action

Duration: January 2018 – December 2021

**Budget**: €10.7M











# Perimeter : **robot technology** sharing space with humans

<u>excluded</u>: drones, autonomous road vehicles, military use, intracorporeal

#### Application domains :

- Manufacturing
- Rehabilitation

- Logistics
- Agriculture
- Significantly reduce the complexity in safety certifying cobots.
- Establish open COVR toolkit to determine exactly which validation procedures are necessary for safety certification.
- Develop testing protocols
- Create network of cobot test hubs across Europe.







To support the development, certification and deployment of a cobot or cobot integration by increasing its perceived and/or real safety

- Test and measure safe limits
- Develop technology
- Develop testing protocols and methods

Beta-test and enrich the COVR toolkit and testing protocols



- 5M€ in financial support to 3rd party cobot development
  - 60k€ maximum per project/entity
  - 100k€ maximum per entity when in several projects
- Access to shared safety facilities (SSF) at partner sites
- Access to COVR Toolkit in its current version

#### ✤Eligibility:

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*legal entity based in an EU Member State or associated country individually or in a consortium* 



- Design and installation of pilot cobot systems (up to TRL 8)
  - including hazard identification and elimination, risk assessment and reduction
  - including safety evaluation and testing on the (industrial/rehab.) field

## Development of safety systems

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- including redesign, design improvement for safety
- including lab and/or field tests
- Development of a cobot, collaborative robot
  - including development and testing of safety functions



# AVARU Requirements

- Attend a COVR workshop
  - toolkit introduction
  - protocols introduction
- Document their experience
  - Continuous communication with ARP
  - End-of-experiment report
- Contribute to COVR elements improvment
- Present their experience in one COVR event

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- Support COVR making of dissemination material
  - including videos
- + funding rules
- + SSF safety and internal rules

- Impact / COVR objectives
- Quality of work described
- Technology readiness

Coverage constraints

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- Use Toolkit in its version: Manufacturing (1<sup>st</sup>), rehabilitation (2<sup>nd</sup>),
- Robot abilities → COVR protocols
- Type of human-robot collaboration, technologies
- Application domain: manufacturing, rehabilitation, logistics, agriculture



## **FSTP TIMELINE 1st call**



(Award Responsible Partner)



## **FSTP global TIMELINE**





#### More information ?

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