
ROSIN: ROS-INDUSTRIAL QUALITY-ASSURED ROBOT SOFTWARE COMPONENTS

AN EU DIGITAL INDUSTRIAL PLATFORM FOR ROBOTICS

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rosin-project.eu



The ROSIN **ambition**

The ROSIN project will make **ROS-Industrial the Open-Source industrial platform** for robotics and factory automation, and will put Europe in a leading position within this global initiative.

OSS for automation

Fact: Open-Source is highly suitable for infrastructure work (think Linux, Android)

“New” robots follow this: service robots run on ROS

Can we do it also on “old” robots (factory automation)?

ROS-Industrial: a worldwide initiative



~50 organizations

First industrial deployments

The EU can lead it

EU already has a big share: tech co-lead @ TU Delft, 20+ members Cons. @IPA

“Sweat equity”: in OSS, who works the most leads it!

EU funding will provide the needed “boost”

The ROSIN **approach**

Make ROS-I **better** (in terms of software quality)
business friendly (components, licensing)
accessible (widely taught, easy for everybody)

Software Quality

ROS-I best practices and tools: continuous integration, unit testing, code reviews

ROSIN further improves on them with code scanning, automated test generation, model-in-the-loop testing

New components + path for exploitation

3+ Million € available to third parties for ROS-Industrial development

Develop missing components or improve existing ones

Commercial release template (licensing, etc)

Education

Educate students: **summer schools**

Train professionals: **ROS-I academy**

Open Call to fund your ROS education initiative

The ROSIN **impact**

Making ROS-Industrial an EU Digital Industrial Platform for robotics:
an Open-Source Infrastructure for users and providers of automation

Deployed on the factory floor



50+ ROS-Industrial based deployments on the factory floor and real products will prove its technical viability

Financially sustainable



100 members in the ROS-Industrial Consortium Europe will ensure support after ROSIN terminates

A channel for European talent



1000 engineers trained in ROS-Industrial and a self-sustained education pipeline will grow ROS-I expertise

A leading position for the EU within a worldwide initiative



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