# Quality-Aware Rapid Software Development
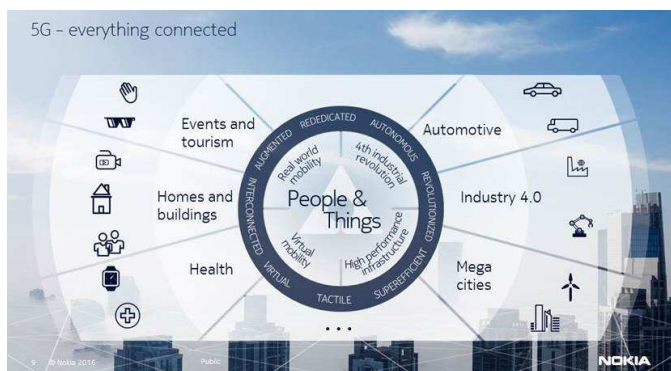
## From Project Coordinator's pen

Welcome to the second year of the Q-Rapids project! This is both busy and exciting period for the project. The partners have worked hard in order to complete a proof of concept showing the feasibility of the platform conception and this proof of concept has been evaluated in the different use case providers' premises. We aim to summarize the results of this proof of concept and evaluation briefly in the next issue.

Best regards,
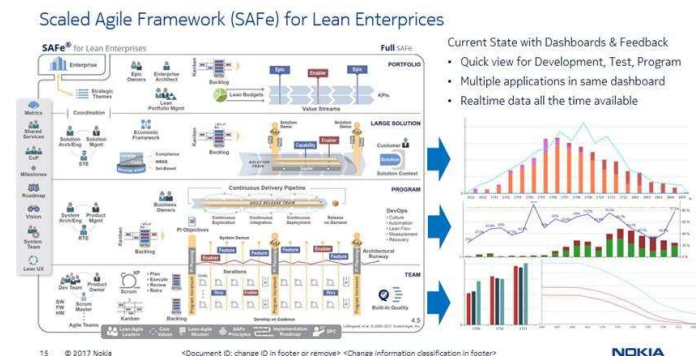
*Xavier Franch*
Project Coordinator

### Agile and Rapid Software Development at Nokia Base Station R&D

Merja Jokiniva had the opportunity to give a key note speak on behalf of Nokia at Profes QuASD workhop in Innsbruck in November 2017. The audience was especially interested in how 5G will change our lives in the future and how we are able to scale agile in large enterprise.



When we take the steps with 5G towards smart factories, more and more intelligent and capable robots, self-driven cars, and all other imaginary solutions, the importance of quality can't be emphasized too much. Imagine a situation where you have a small operation to be done by your doctor remotely with robotic arm and suddenly there is a slowness in the network or problems with latency. We are not yet living in the world we have seen in science fiction movies, but we will in the coming years. We will need out-of-the-box thinking in the imaginary solutions of 5G era, but similarly for related quality improvements, big data usage, quality visualization etc. We can't be satisfied with the current real-time data with combination of data sources and metrics. On our path the basics like continuous integration, continuous delivery and automation are needed, but they are just the basics and we should reach for much higher goals. We should seek for predictive, big data, all-automated and fully transparent data and metrics systems which will provide us real-time alerts with proposed actions. Or in some cases even with automated actions.



Nokia R&D is huge with 37,000 R&D professionals globally. This means we should have the R&D machine rolling almost 24 hours a day. For required scaling we have decided to use SAFe framework. Already we have used different agile, lean and rapid methodologies in different layers of the organization for more than a decade, but SAFe is bringing us the glue or oil needed between the team-program-large solution-portfolio layers of the organization to ensure that the whole

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machine supports the individual engineer to create value for our customers and end-users – to all of us using mobile networks.

When she joined some of the research paper and industrial experience presentations, Merja got the impression that Nokia really is one of the top companies in quality and process improvement activities. There is a lot of good material in Nokia's internal improvement projects for PhD studies and papers, and it would benefit us to be in more active communication with research world in the SW quality area. Merja's presentation may be downloaded from SlideShare.

## QuASD – what an experience!

The 1st International Workshop on Managing Quality in Agile and Rapid Software Development Processes (QuASD) was held on 29th of November in Innsbruck. It was a 1-day workshop, and the program consisted of one industry keynote, 2 technical papers, 1 experience report, 4 emergent papers, and 1 practitioner message. The program and papers are available on the official website: http://www.quasd.org/

The participation of Q-Rapids was high, with a Nokia keynote by the release manager Merja Jokiniva, and two emergent papers presentations by Woubshet Behutiye (UoO) and Lidia Lopez (UPC).

The most exciting part was the wall of ideas, in which 15 participants from diverse European countries reported the hot topics, which should be researched regarding quality in agile/rapid software development.

The workshop was co-located with the International Conference on Product-Focused Software Process Improvement (Profes), whose next edition will be

celebrated 28.-30.11.2018 in Wolfsburg, Germany. Stay tuned on Twitter @quasd_ws for the next news on the QuASD workshop!

## Heads up for the next steps

Q-Rapids project has advanced according to plans. This means that we have achieved the proof-of-concept stage. By now we have created the comprehensive collection of deliverables. Many of those have been labelled as public, which means that after the first formal EU review, you can download those deliverables from the project website. We are excited to share the results with you all and welcome you to give us feedback and collaborate to get further with the development work.