An aerial photograph of a large group of skydivers in formation, viewed from above. The skydivers are arranged in a circular pattern, with many more scattered around the perimeter. The background is a bright, hazy sky with a sun-like glow in the center. The word 'NOKIA' is overlaid in large, semi-transparent letters across the middle of the image.

Nokia Bell Labs Wrocław and EU funded research on the road to 5G

NOKIA

Dr. Patrick Marsch

Department Head, Wireless Systems Research, Nokia Bell Labs

Key Figures

10+ years experience
50 researchers
11 nationalities

IPR

130+ patent families
filed since 2008

Collaboration

EU-project engagement:
Winner+, Socrates,
Artist4G, METIS(-II),
mmMAGIC, ...

Bilateral collaboration
with key customers and
vertical industry players

Visibility

7 Workshops co-
organized alongside
IEEE ICC / Globecom
7 books co-authored

3GPP

70+ 3GPP
contributions co-
authored or strongly
shaped in 2013.

5G

MAC / RLC / PDCP /
RRC design

RRM research

Deployment research

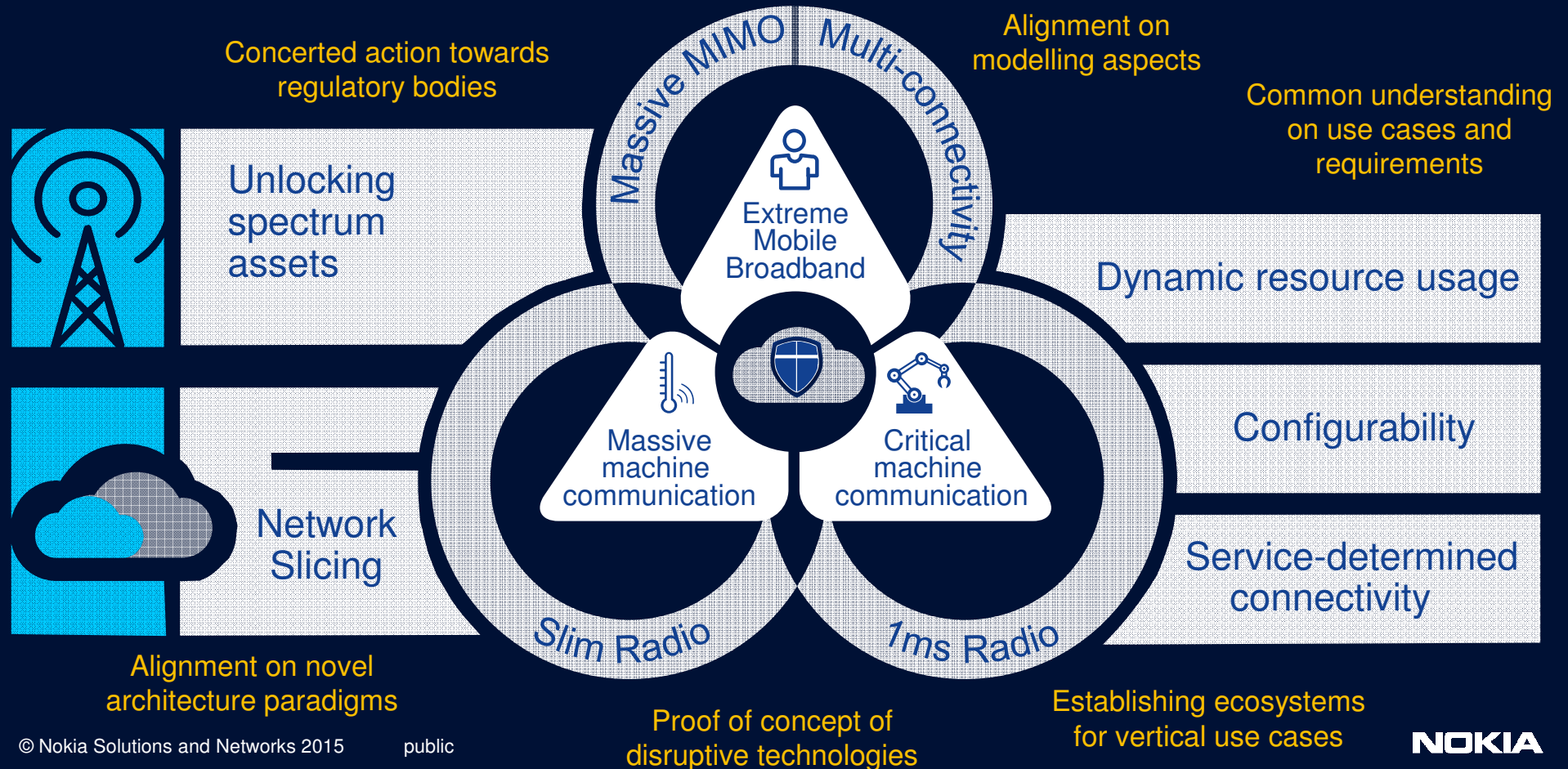
Internet of Things
Enablers

Spectrum Coexistence

5G prototyping

5G will be a system of systems with a versatile radio

Why collaborative research is essential to pave the way



Nokia Bell Labs in 5G PPP Phases I & II

Nokia Bell Labs are strongly engaged in 5G PPP phase I, e.g. project coordination of 5G NORMA and FANTASTIC-5G, technical management of METIS-II, lead of 5G Architecture working group

For phase II proposals, Nokia Bell Labs are still open towards potential new partners with competences in particular fields, e.g.

Security in cyber-physical systems

Time critical production automation in FoF

Robotics

eHealth

Haptic Devices

Cloud computing in the context of mission critical communications

In case of interest, please contact: vladimir.vukadinovic@nokia.com

Thank you for your attention!

NOKIA

An aerial photograph of a large group of skydivers in formation over a landscape. The skydivers are arranged in a circular pattern, with many arms raised. The word "NOKIA" is overlaid in large, semi-transparent, light blue letters across the center of the image. The background shows a mix of green and brown terrain under a bright sky.

Dr. Patrick Marsch

Department Head, Wireless Systems Research, Nokia Bell Labs