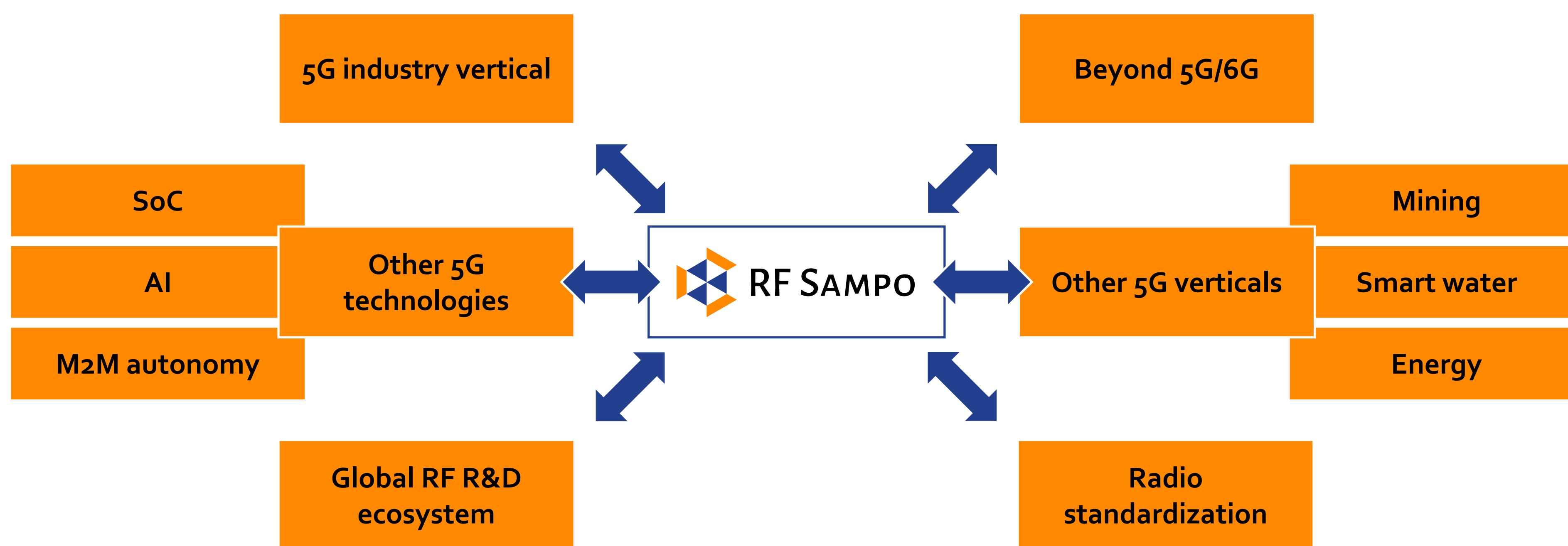
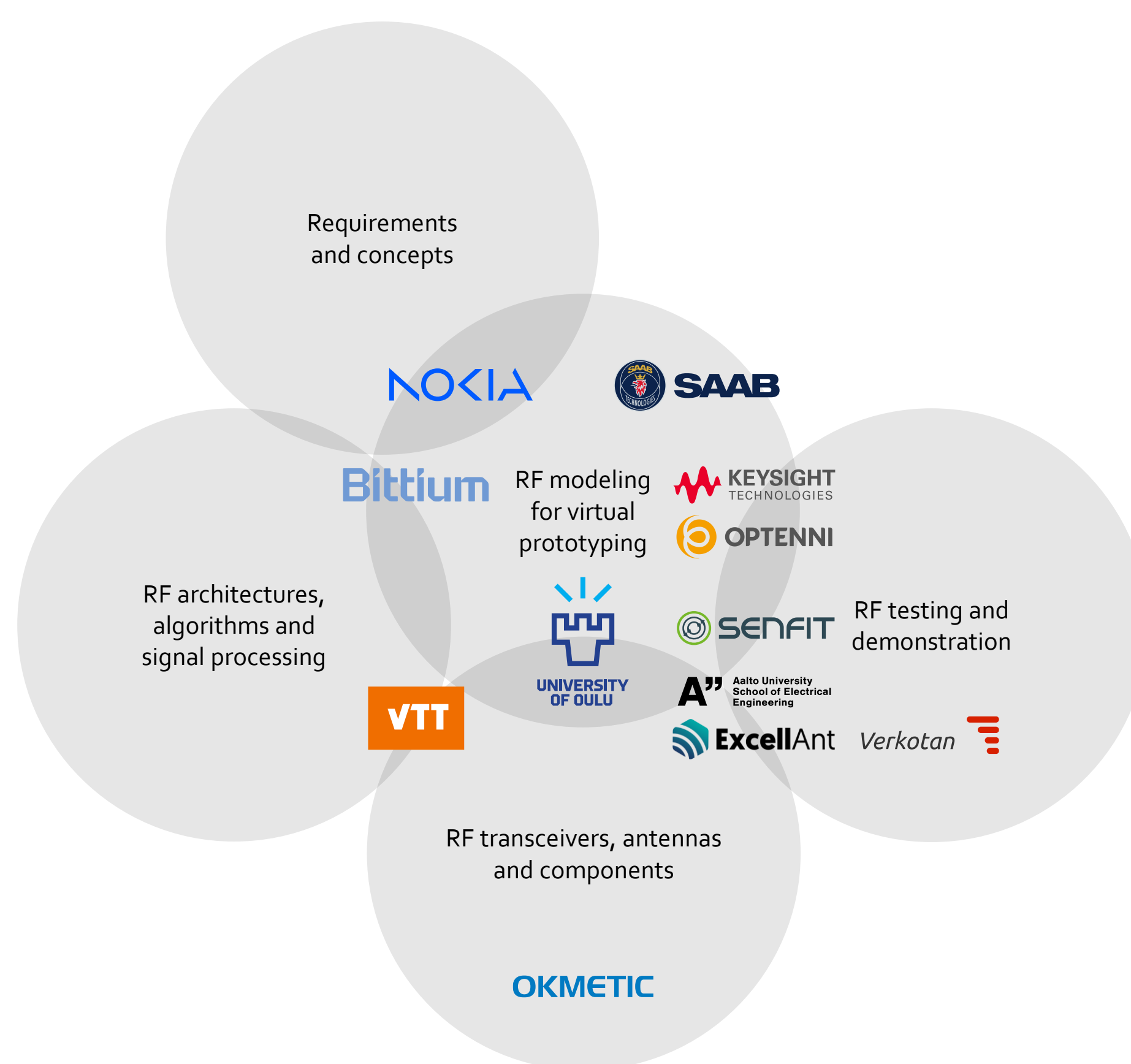


RF and Antenna Technologies for Industrial 5G networks and beyond



- RF Sampo focuses on solving the complexity problem in modern radio solutions related to their design and manufacturing
- The evolution of wireless systems and the large variety of support applications will lead to a highly diverse set of requirements for radios and their RF parts
- The project looks specifically at aspects of hierarchical design and new core technologies from RF hardware, software and system integration aspects for future industrial and other vertical 5G solutions



Project focus

- RF requirements and concepts
- RF modelling towards virtual prototyping
- RF signal processing
- RF transceivers, antennas and components
- RF testing and demonstration

Challenges include increased customization and co-existence of various radios from the user perspective. RF and antenna technologies being studied cover aspects of the modelling of RF systems and designing new technologies, approaches, and solutions for 5G radios and beyond.

