Research context is governmental customer communication and communication monitoring in evolving cognitive mobile networks.
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Goals

› Automatic adaptation to dynamic changes of cellular networks
› Understanding challenges and possibilities of Licensed Shared Access, Advanced Antenna Systems and Device to Device communication to governmental customers
› Follow-up and evaluation of multi-technology SDR platforms for finding suitable platforms for governmental applications
› Exploring new potential product and business possibilities from the cognitive cellular networks
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Goals of WP2 Business environment, regulation and standardization

› Analysing current state and potential application areas of CRS in cellular communication for governmental customers
› Finding new type of applications and application areas for governmental customers by using SDR platforms
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Goals of WP3 Cognitive radio system research

› Prototype of multi-technology cellular measurement application that can detect radio environment changes of cognitive cellular network
› Prototype of radio adaptation framework and radio controller for governmental applications
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Goals of WP4 Trial environments

› Use cases of cognitive test environment for governmental cellular applications
› Evaluation of SDR platforms for governmental applications
› Definition of cognitive test environment
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Co-operation possibilities

› Participation to CORE+ Steering, Working and Technical Steering groups
› Supporting of EAST and M5 equipment used in CORE+ test network of Centria in Ylivieska
› Field testing of AAS and LTE in CORE+ test network of Centria in Ylivieska