



X2RAIL 3

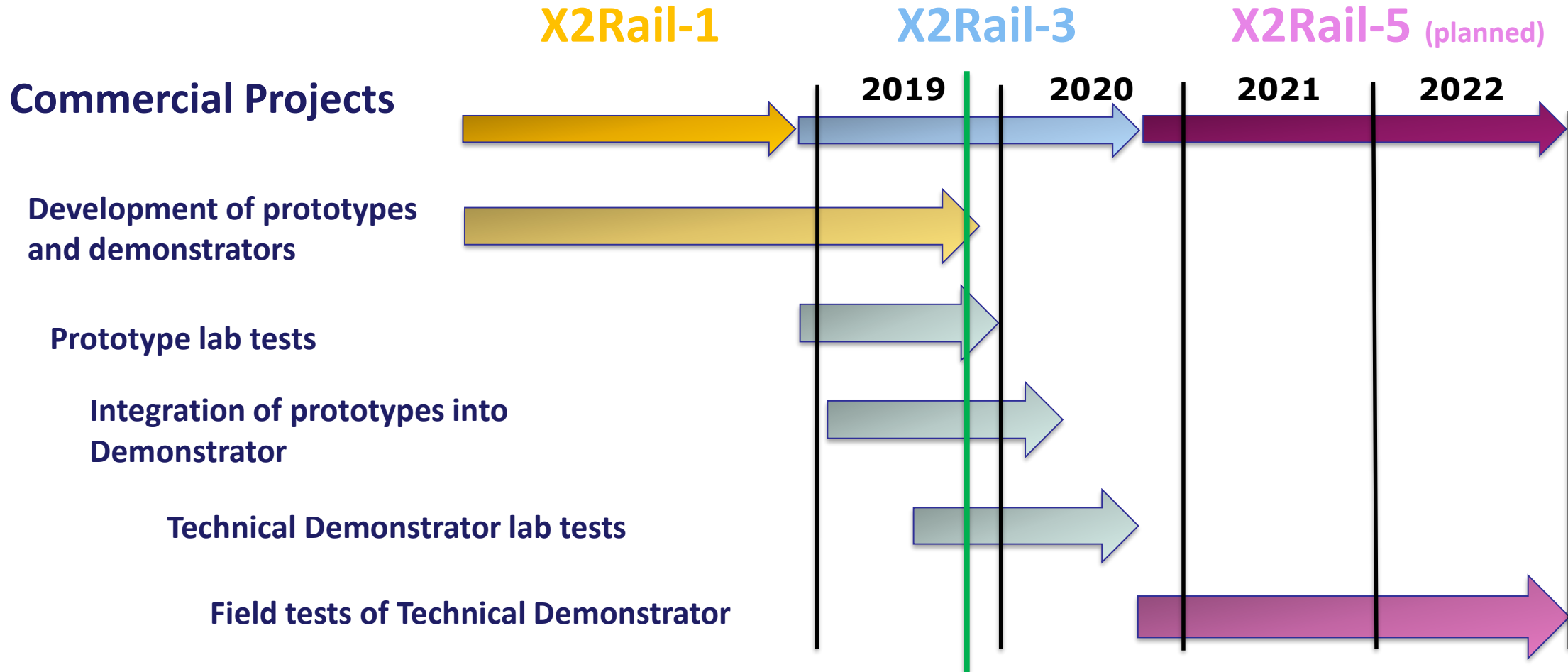
Status of S2R Adaptable Communications project

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16.10.2019, Valenciennes



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No: 826141

Adaptable Communication System Overall Planning



Status and planning of the Deliverables

X2Rail-1

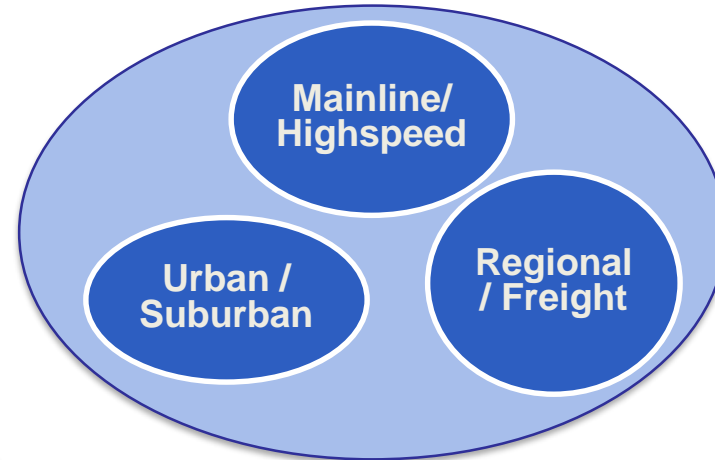
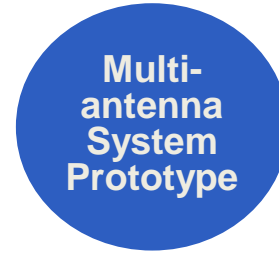
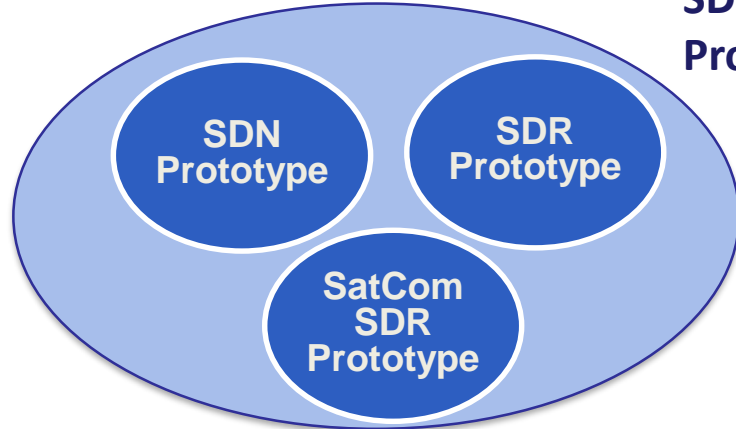
- **User and System Requirement Specification done and published**
- **System Specification done and published**

=> https://projects.shift2rail.org/s2r_projects.aspx

X2Rail-3

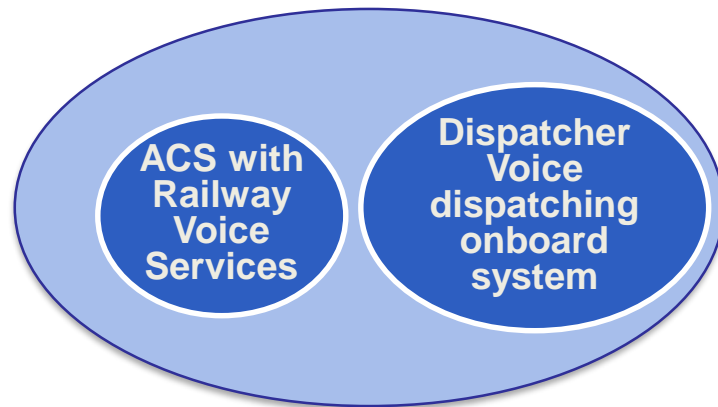
- **Update of Prototype Development Report** ->11/2019
X2R3 Deliverable 3.1 (confidential)
- **Technology Demonstrator Lab Test Report** ->11/2020
X2R3 Deliverable 3.2 (confidential)
- **Field Test Strategy Document** ->11/2020
X2R3 Deliverable 3.3 (public)
- **Antenna system specifications for adaptable communications in railway environment** ->11/2020
X2R3 Deliverable 3.4 (public)

SDR/SDN Prototypes

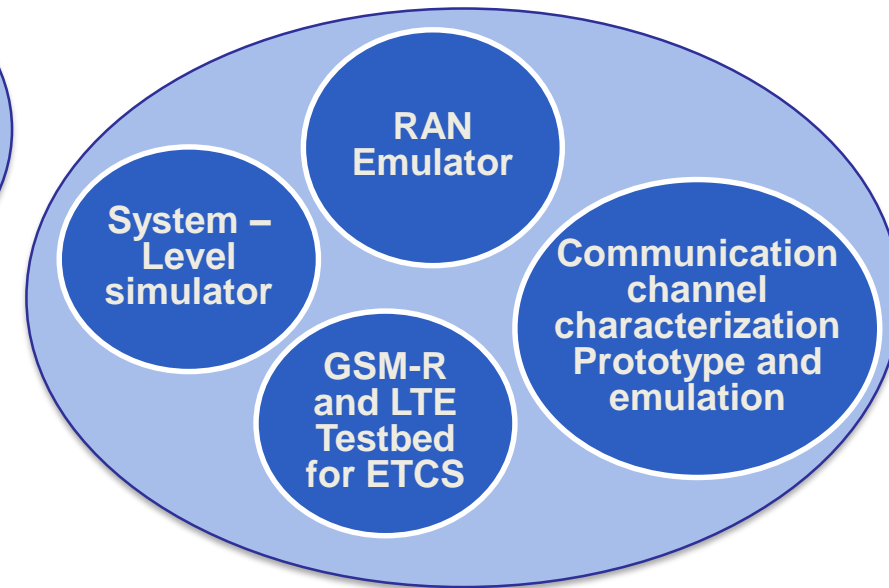


Railway Segment application (data) oriented Prototypes

Voice related Prototypes



Simulation/Emulation/Testing Prototypes



⇒ All prototype developments nearly finished

⇒ 3 Demonstrators for the different Railway Segments in Integration phase

Conclusion

- **Adaptable Communication System (ACS) is well on track, designed for all Railways (Highspeed, Regional, Urban and Freight)**
 - **User Requirement and System Specification for the Adaptable Communication System publicly available**
 - **Technical prototypes developed**
 - **Technical demonstrators validating ACS concepts at integration stage**
 - **Smooth, cost-effective migration and co-existence with legacy systems as objective**
 - **Good cooperation with UIC Project FRMCS**
- => Future Communication System is a Railway Game Changer and key for the others (ATO, ETCS, ...)**

Thank you very much

