



X-TREME 6G  
OVERVIEW

Didier Belot



# From Microelectronics Devices to 6G Telecom Applications

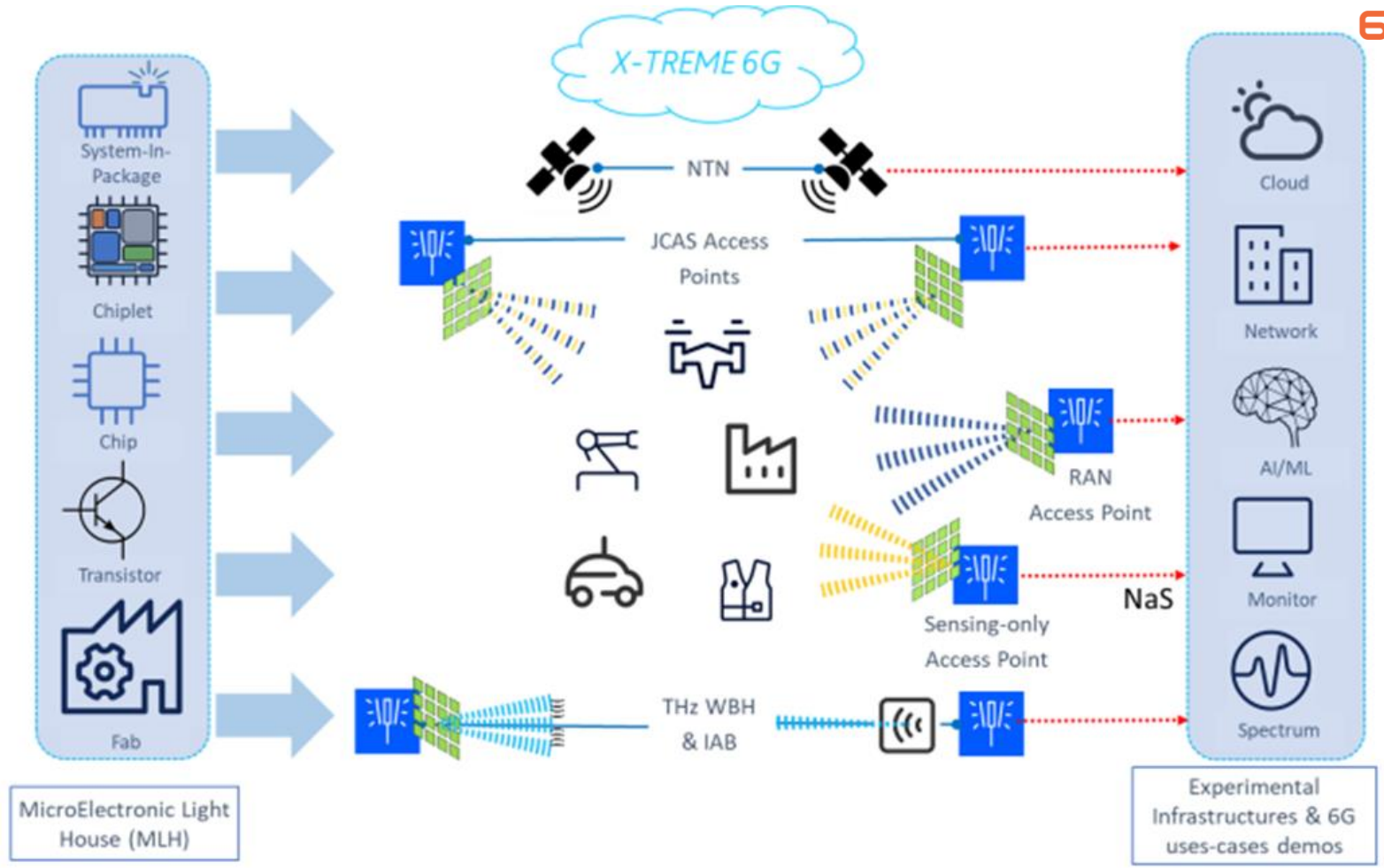
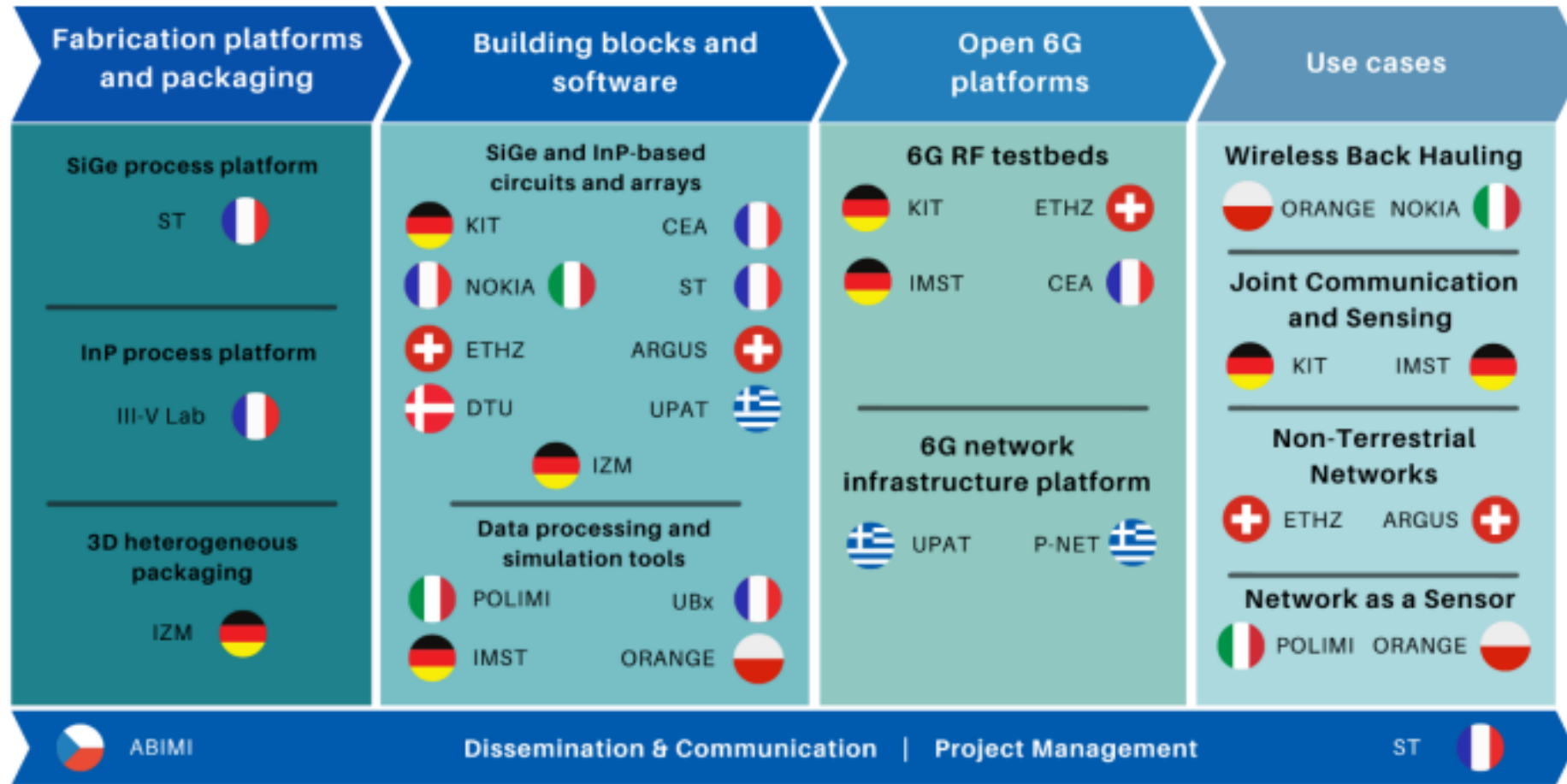


Figure 1: X-TREME 6G Vision: Unleash the full potential of Microelectronic chips and chiplets for truly innovative 6G platforms and use-cases

# X-TREME 6G Partners Roles in the Consortium



# X-TREME 6G Objectives

<b>MLH</b>	<p><b>Objective 1</b></p> <p>Develop and deploy the Microelectronic LightHouse (MLH) based on new SiGe B55X and 0.5µm In P pilot lines to release latest generations chipsets and develop chiplets using new 3D integration technique for 6G technologies</p>
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<b>MLH</b>	<p><b>Objective 2</b></p> <p>Design and Fabricate power efficient microelectronic building blocks for 6G experimental infrastructures and use cases demonstrators.</p>
<b>SNS</b>	



# X-TREME 6G Objectives

<b>SNS</b> Objective 3	Develop and integrate the multi-site X-TREME 6G test beds experimental open framework platforms, which incorporates the newly developed 6G disruptive microelectronic technologies and solutions.
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<b>SNS</b> Objective 4	Validate and demonstrate relevant 6G use cases including Sub-Terahertz wireless X-hauling, JCAS, NaS and NTN.
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# X-TREME 6G Objectives

<p><b>SNS</b></p> <p><b>Objective 5</b></p>	<p>Contribute through the developed microelectronic solutions to relevant emerging 6G KPIs and KVIs in strong collaboration with running SNS Stream-B programs and enable the hosting of additional 6G use cases validation through open calls and cooperation with Stream-D projects.</p>
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**WP5 - CEA & ST, IZM, Nokia, KIT, IMST, POLIMI, UPAT, P-NET , ORANGE, ETHZ, ARGUS**

**WP6 - ABIMI & All Partners**

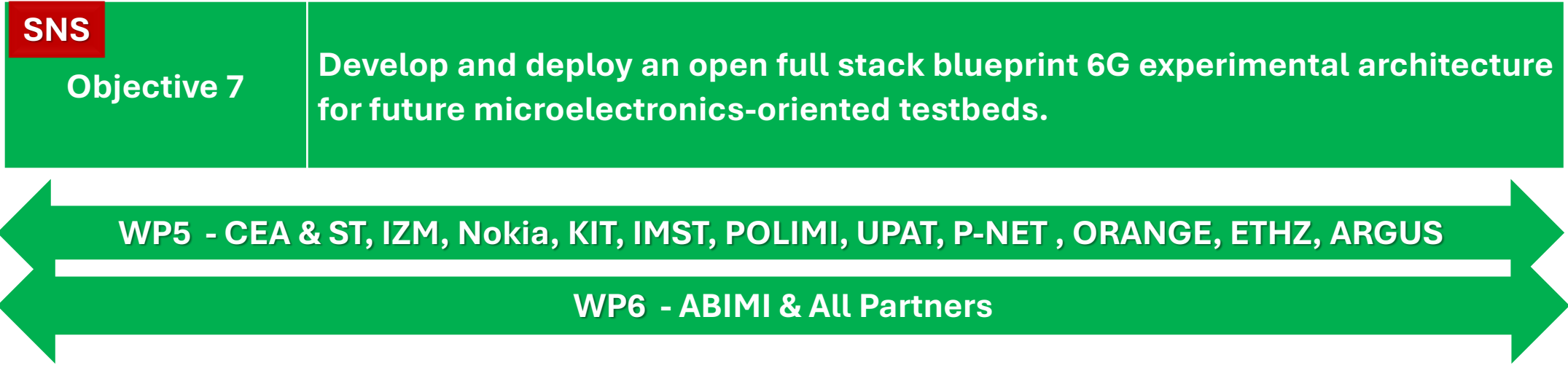
<p><b>SNS</b></p> <p><b>Objective 6</b></p> <p><b>MLH</b></p>	<p>Establish federative methodologies to establish a bridge between SNS JU and Chips-JU ecosystems for the benefit of all relevant stakeholders.</p>
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**WP6 - ABIMI & All Partners**

**WP7 - ST & All Partners**

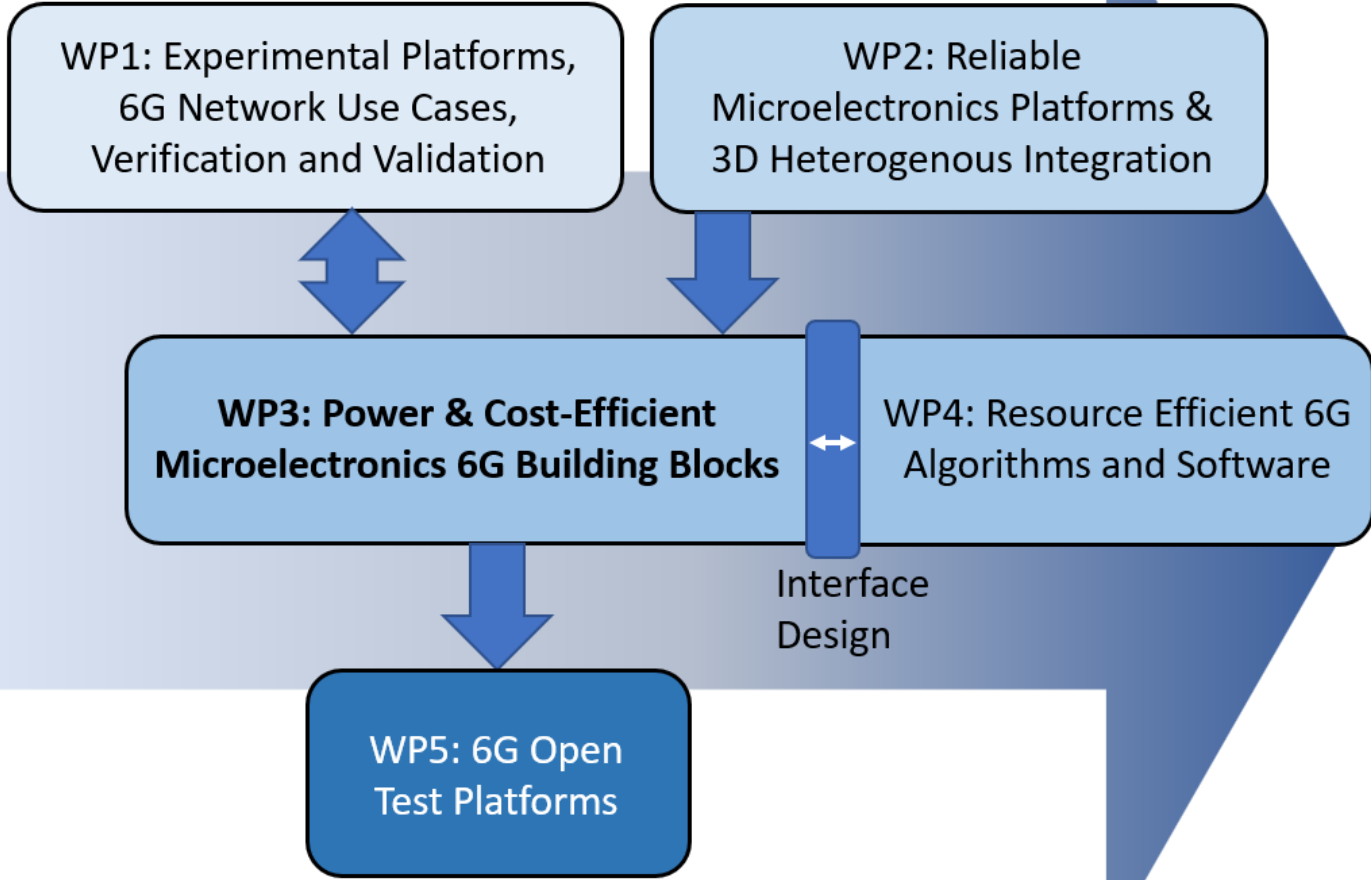


# X-TREME 6G Objectives



# X-TREME 6G Implementation & Key People

WP7: Project Management and Coordination



WP6: Dissemination, Exploitation, and Future Scientific Challenges

- Project Coordination: ST (Didier Belot)**
- Administrative Support & CE relation: ABIMI (Raphael Denneulin)**
- Scientific MLH coordination: ST (Didier Belot)**
- Scientific SNS Coordination: Nokia (Mohand Achouche)**





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# Thank you for your attention!

X-TREME 6G

Space for logo

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