

EPIC >>>



The EPIC project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 760150.

EPIC H2020 PROJECT

Coordinator:
Technikon Forschungs- und Planungsgesellschaft mbH
coordination@epic-h2020.eu

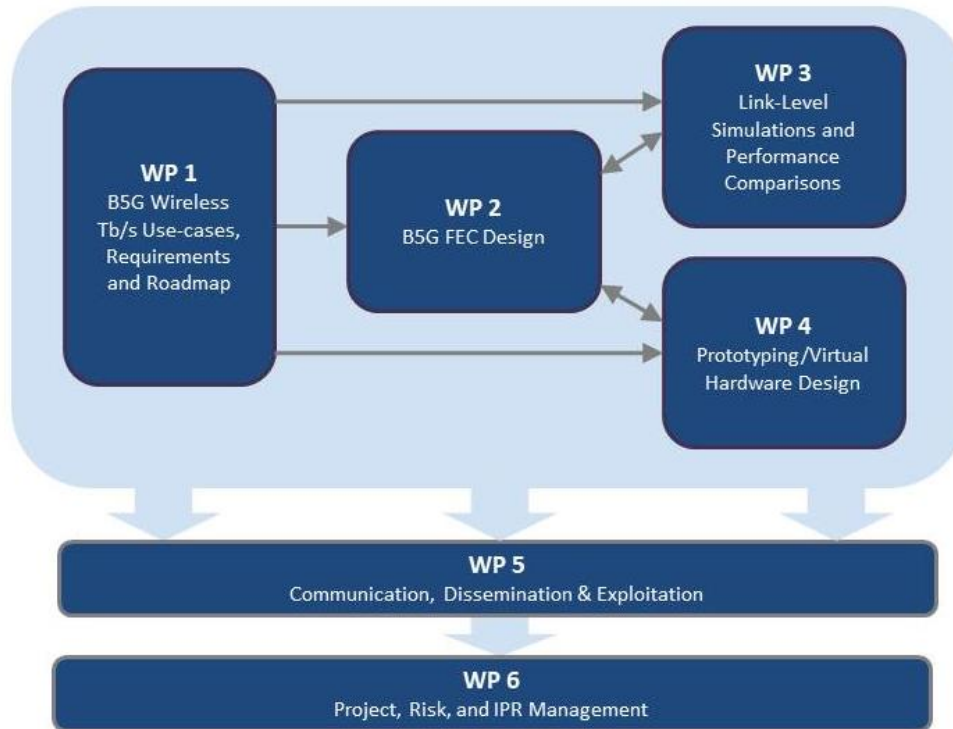
General Project Information

- Project reference: **760150**
- Project start: **1st September 2017**
- Duration: **3 years**
- Total costs/EC contribution: **EUR 2.966.268,75**
- **Eight partners** from **seven** different **European countries**
- **Mission:** EPIC aims to develop a new generation of Forward-Error-Correction (FEC) codes in a manner that will serve as a fundamental enabler of practicable beyond 5G wireless Tb/s solutions and also to develop and utilize a disruptive FEC design framework allowing to advance state-of-the-art FEC schemes.
- Website: www.epic-h2020.eu

Project Goals

- The EPIC consortium is dedicated to successfully reach the following objectives
 - ◆ Design and implementation of **next generation Forward-Error-Correction** for wireless Tb/s technology and **Beyond-5G systems**
 - ◆ Advancement of **state-of-the-art channel codes** and **channel coding technology** for wireless Tb/s technology
 - ◆ **Holistic design approach** that considers code design, decoding algorithms and efficient implementation on advanced silicon technologies in a cross-layer approach
 - ◆ Validation and demonstration of new FEC technology and corresponding implementations as **virtual silicon tape-out** using realistic use cases
 - ◆ Provide **scientific excellence and contributions** to wireless industry in the domain of B5G standardization and technology development

Work Package Interaction



Impact

- The expected impacts of EPIC are
 - ◆ **reinforce Europe's scientific leadership** in the field of FEC technology
 - ◆ provide a huge leap in the validation of **practical, low-cost wireless Tb/s link technology**
 - ◆ integration of code design, decoding algorithms implementation on advanced silicon technologies in **one combined design framework**
 - ◆ **energize the fundamental research in the FEC field with** EPIC's disruptive design approach and advancements in Turbo, LDPC, and Polar Coding

Contacts

Project Coordinator:	Technical Lead:
<p>MMag. Martina Truskaller</p> <p>TECHNIKON Forschungsgesellschaft mbH Burgplatz 3a 9500 Villach Austria</p> <p>Tel.: +43 4242 233 55 –78 Email: coordination@epic-h2020.eu</p>	<p>Prof. Dr.-Ing. Norbert Wehn</p> <p>Technische Universität Kaiserslautern Gottlieb-Daimler-Straße Geb. 47 Kaiserslautern 67663 Germany</p> <p>Tel:+49 631 205 4436 Email: wehn@eit.uni-kl.de</p>

Website: www.epic-h2020.eu

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EPIC Grant Agreement No. 760150

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If you need further information, please contact the coordinator:

TECHNIKON Forschungs- und Planungsgesellschaft mbH

Burgplatz 3a, 9500 Villach, AUSTRIA

Tel: +43 4242 233 55 Fax: +43 4242 233 55 77

E-Mail: coordination@epic-h2020.eu

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