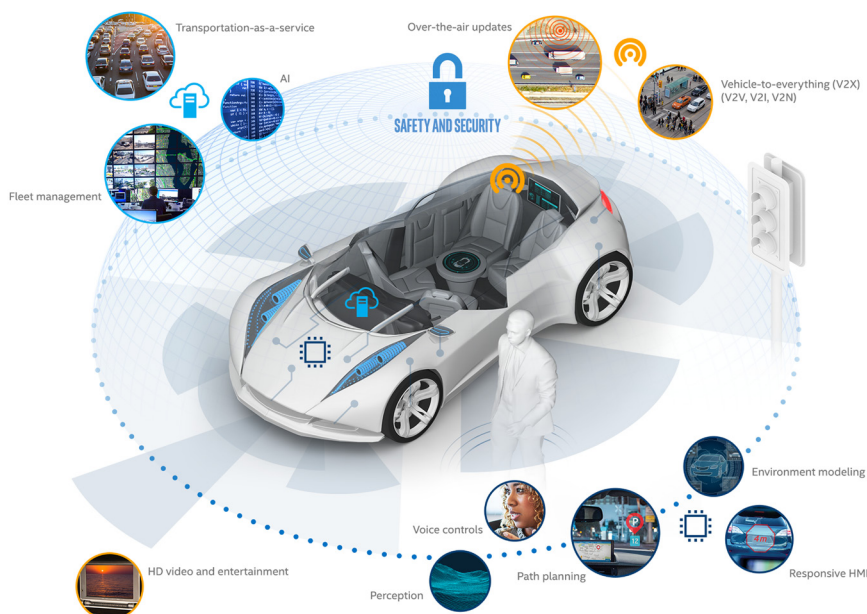# ETSI — The Standards People

#ETSIMECHACKATHON

1st ETSI MEC Hackathon
Edge Computing Congress 2018,
Hotel Palace Berlin, 18-19 September 2018

Call for Edge Computing Developers for 5G
Develop advanced mobile applications for automotive infotainment services
in ETSI MEC-enabled 5G networks

Enter your team for this competition today!
You will be asked to develop Entertainment and/or VR/AR applications ("EVA apps"),
as in-car mobile solutions for passengers using ETSI MEC technologies.

Further details here: **www.etsi.org/mec-hackathon-1-berlin**

Organized by ETSI, Hosted by Knect365,
Supported by Intel, Vodafone, Saguna, ISMB, i3p, Huawei, VIAVI
Prizes sponsored by Vodafone, Intel and Knect365

Notes:
- As space is limited, only a selected number of Developers' Teams will be admitted to the competition.
- At the end of the competition, prizes by the Organizing Committee will be awarded to the winning teams.
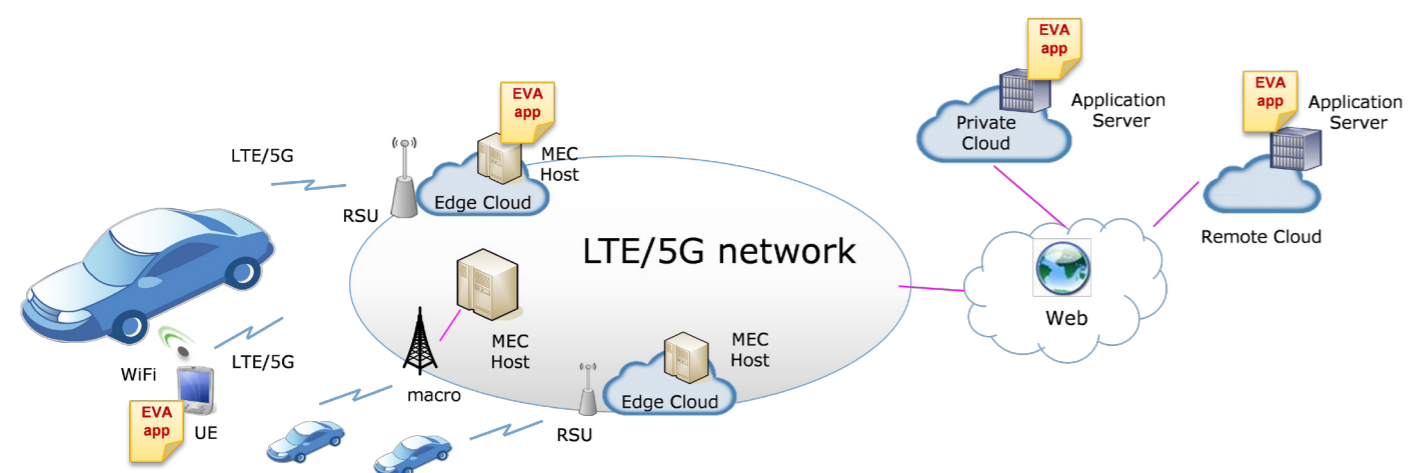
ETSI MEC Hackathon – The challenge

- The automotive sector is one of the hottest areas for Edge Computing and 5G. This provides the focus for this MEC hackathon, specifically the **in-vehicle infotainment**, considered a promising market segment in addition to traditional use cases on connected and automated cars.
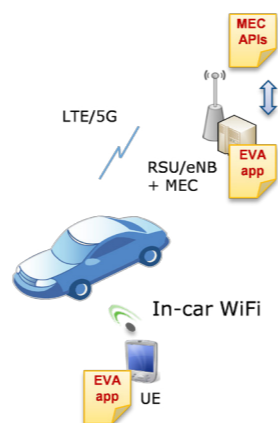
  According to predictions, "a new $7 trillion passenger economy will emerge when passengers become riders." […]. "Drivers spend 300 hours a year behind the wheel and 5G offers entertainment opportunities to optimize that time as we transition from drivers to riders."
  [Excerpt from Intel 5G Connected Vehicles Webinar, 2018]

- Developers' teams at the Hackathon will be tasked to develop Entertainment and/or VR/AR applications (here termed "EVA apps") for this use case using ETSI MEC technologies[1].

- Teams will learn and exploit the ETSI MEC APIs running on the MEC Hosts at the competition (e.g. Radio Network Information API, Location API).[2]
  As an additional task, the teams will demonstrate performance enhancements of their EVA apps (e.g. throughput improvements, latency reduction, security features) in a real world simulation testbed, e.g. supporting typical connected vehicle / automated driving use cases.[3]

- Candidate Developers' Teams are free to choose a specific challenge adhering to the above topic. To inspire ideas, the following use case example is provided: www.etsi.org/mec-hackathon-1-berlin/mec-case-study.pdf

- Of course, candidates are encouraged to **reuse their existing or past project** with Entertainment and/or VR/AR applications, and apply/adapt for the present Hackathon.

- A simple "Hello World" type demo is also provided to help clarifying how developers might exploit the offered ETSI MEC APIs during the competition:
  www.etsi.org/mec-hackathon-1-berlin/mec-live-demo

- For any further technical questions, please visit the dedicated Q&A webpage:
  https://wiki.plugtests.net/MECHackathon1/index.php/FAQ

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1   Please refer also to the white paper "Developing software for MEC", available at this link
2   For more background information on the ETSI MEC standard (including MEC architecture and MEC APIs), you can check
    the specification tab at this URL: http://www.etsi.org/technologies-clusters/technologies/multi-access-edge-computing
3   Examples of automotive use cases: http://5gaa.org/wp-content/uploads/2017/12/5GAA_T-170219-whitepaper-EdgeComputing_5GAA.pdf

ETSI MEC Hackathon – Team submission guidelines

- **Team size**: 5 members (maximum)

- Submissions should be sent to 1ST_ETSI_MEC_HACKATHON_BERLIN@LIST.ETSI.ORG using the submission form (link below). They should include a description of the idea; the target EVA application; information on any intention to **reuse / integrate code** from past activities, or other projects / prototypes / products on AR/VR (highly recommended); and a CV for each team member. Any complementary material (e.g. short videoclips) related to the idea is welcomed.
  IMPORTANT: Submissions should clearly state how the team intends to use ETSI MEC APIs (available at https://forge.etsi.org/). *NOTE: whilst the use of MEC service APIs is not mandatory, teams are encouraged to utilize them.*

- **Submissions:**
  Submissions will be evaluated by the Hackathon Organizing Committee based on various criteria, e.g. relevance to the Call for Developers, assessed relevance of the in-car use case, usage of MEC APIs, composition of the team, level of maturity of the project.

- Selected teams will be notified before the event. Participants selected for the competition will be also admitted to join the Intel® Network Builders Network Edge Ecosystem.

- **Cost:** The submission and attendance to the Hackathon is free of charge for the selected developers

- **Venue:** Hotel Palace in Berlin. Hackathon: from Tuesday 18th Sept AM to Wednesday 19th Sept PM

- At the end of the competition there will be an **award ceremony**, where the Organizing Committee have organized a number of **prizes**:

  o The venue host Knect365 will provide the winners with free passes for a Knect365 2019 hosted conference

  o Intel will offer to all participants the possibility to join the Intel® Network Builders Network Edge Ecosystem

  o Vodafone will provide prizes for best teams leveraging local opportunities with German partners and facilities: advertisement through a German Vodafone media channel; engagement with a Vodafone automotive test centre in Germany equipped with MEC infrastructure and with a local German incubator; presentation at a major German innovation event. All the offered opportunities will be subject to availability and provided at Vodafone's discretion.

To register your team, please visit the website: www.etsi.org/mec-hackathon-1-berlin
or contact us at 1ST_ETSI_MEC_HACKATHON_BERLIN@LIST.ETSI.ORG

Good luck and we hope to see you at the 1st ETSI MEC Hackathon!

The MEC Hackathon Organizing Committee