

Manfred HALVER | ICT Expert in H2020

## ICT SUMMER CALL

21.8.2018

## ABOUT

FFG is the main funding agency for applied research and innovation in Austria

Manfred Halver is working at FFG as expert for European ICT programmes and as National Contact Point for Research Infrastructures since 2006

More information on our services and further contacts:

[www.ffg.at/ikt/international](http://www.ffg.at/ikt/international)



## OPEN TOPICS WITH DEADLINE 14. NOV. 2018

High Performance Computing and Big Data (ICT-11-2018-2019)

5G validation trials (ICT-19-2019)

Interactive Technologies (ICT-25-2018-2020)

Digital Platforms and Pilots (Agriculture DT-ICT-08-2019, Smart Homes and Grids DT-ICT-10-2018-2019, horizontal activities DT-ICT-13-2019)

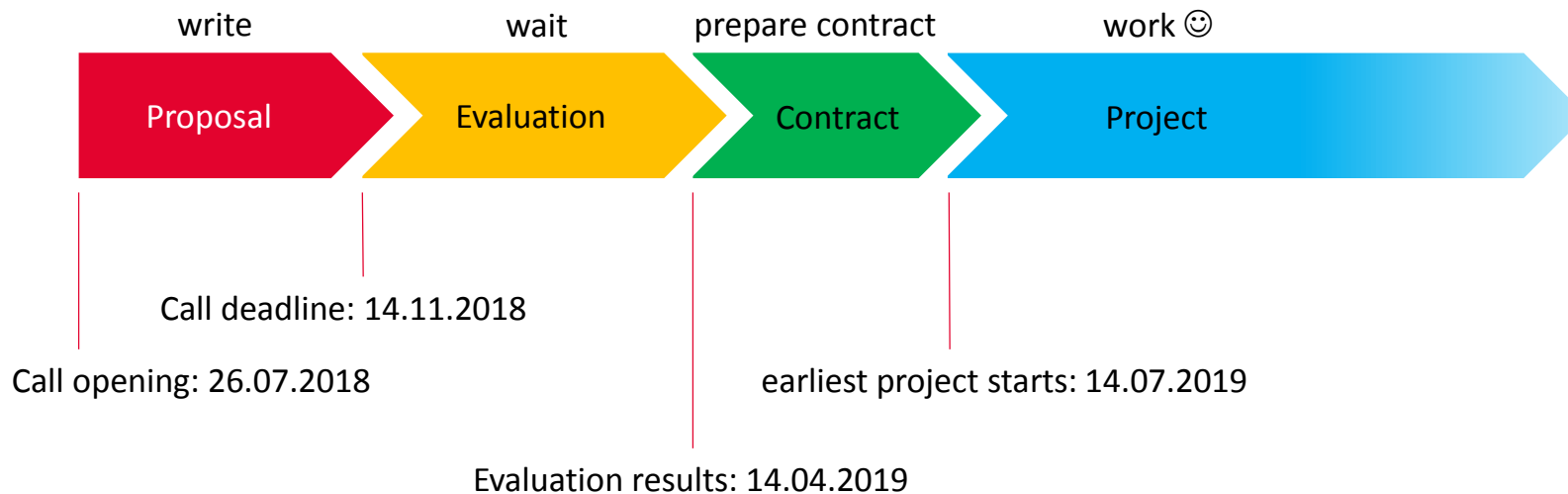


## DO YOU PLAN TO SUBMIT A PROPOSAL TO THIS CALL?

- a) High Performance Computing and Big Data (ICT-11-2018-2019)
- b) 5G validation trials (ICT-19-2019)
- c) Interactive Technologies (ICT-25-2018-2020)
- d) Digital Platforms and Pilots (Agriculture DT-ICT-08-2019, Smart Homes and Grids DT-ICT-10-2018-2019, horizontal activities DT-ICT-13-2019)
- e) No.



## TIMELINE OF THE CALL



# ICT-11-2018-2019 HPC AND BIG DATA ENABLED LARGE-SCALE TEST-BEDS AND APPLICATIONS

## Policy Context:

- Connection to the European Cloud Initiative (<https://ec.europa.eu/digital-single-market/en/%20european-cloud-initiative>) and the HPC European Technology Platform (resp. Public Private Partnership; <http://www.etp4hpc.eu/>)
- NO link to the European Open Science Cloud (EOSC)

## Hints:

- Carefully read the resp. policy documents of both initiatives; clearly show how your idea

strengthens the synergies

- Within your proposal refer to targets of those initiatives and how your project will contribute towards achieving them
- Separate your project idea well from the previous call (“Scope a”) of the topic with HPC focus), although parts of (not funded) projects could be re-used here
- Strong industrial commitment needed (partners!)
- Check for possible synergies with other funding sources

# ICT-11-2018-2019 HPC AND BIG DATA ENABLED LARGE-SCALE TEST-BEDS AND APPLICATIONS

- Project Type(s): Innovation Action
- Budget: 40mn. € (15-18mn. per project)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-11-2018-2019.html>

## Summary Topic content:

- Focus is industrial large-scale application test-beds integrating IoT, Cloud-tech. enabled Big Data (BD) applications
- Linking relevant building blocks also from Big Data and Edge computing and including owners/providers of data flows from very large number of distributed sources; taking

into account connectivity, data collection and management

- Showing innovation potential (business case) considering simple cloud-access for esp. SMEs
- Exploitation perspective (industrialisation) in different countries/regions must be clear

## Summary Expected Impact:

- increase innovation, productivity, BD market share in target sector;
- effective integration and widening use of HPC, BD, Cloud, IoT in target sector
- stimulate further investments

# ICT-19-2019 ADVANCED 5G VALIDATION TRIALS ACROSS MULTIPLE VERTICAL INDUSTRIES

## Policy Context:

- Topic is covering the last Phase (phase 3b) of the 5G Public Private Partnership (PPP)
- Consortia have to strongly take into account existing and finished projects from prior calls in this context
- Further, tackling concrete points of the relevant 5G PPP documents is a must (see <https://5g-ppp.eu/>)

## Hints:

- We strongly recommend to collaborate within a consortium with relevant players that

already have had successful projects in H2020 5G PPP topics (phases 1, 2, 3a)

- 5G PPP offers a dedicated brokerage platform for 5G project participations (<https://5g-ppp.eu/brokerage-platform-new/>)



# ICT-19-2019 ADVANCED 5G VALIDATION TRIALS ACROSS MULTIPLE VERTICAL INDUSTRIES



- Project Type(s): **Research & Innovation Action**
- Budget: **90 mn. €** (10-15 mn. per RIA)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-19-2019.html>

## Summary Topic content:

- RIA: various (scaled, specific) trials demonstrating performance (see 5G PPP KPI); taking into account multiple „vertical“ use cases (eMBB, mMTC, URLLC; see running Phase 3a projects); focus on slicing, virtualisation, QoS;

direct link to platforms from ICT-17-2018 projects

## Summary Expected Impact:

- RIA: Advanced Trials (validated core tech., vertical use cases in high- & low-density regions; connected to running 5G projects; business models across multiple industry sectors; contribution to standardisation; ...)

# ICT-19-2019 ADVANCED 5G VALIDATION TRIALS ACROSS MULTIPLE VERTICAL INDUSTRIES



- Project Type(s): **Coordination and Support Action**
- Budget: 2mn. € (1 x 2mn. CSA)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-19-2019.html>

## Summary Topic content:

- CSA: Implement the „programm“ type link between ICT-17-2018, ICT-18-2018, ICT-19-2019, ICT-20-2019 funded projects and connection to 5G Infrastructure Association;

Portfolio & gap analysis, mapping, roadmapping, support activities for international cooperation (usual focus for 5G is Asia & US)

## Summary Expected Impact:

- CSA: Organisation & Coordination with 5G PPP (projects & programme) and 5G Infrastructure Association; supporting international cooperation, definition of future Research & Innovation

## ICT-25-2018-2020 INTERACTIVE TECHNOLOGIES

### Policy Context:

- Topic is embedded into the Next Generation Internet initiative of the European Commission (<https://www.ngi.eu/>)

### Hints:

- Consortia should take into account existing and finished projects from prior calls in this context as well as other projects tackling AR/VR or technologies covered by your proposal
- Link your project well to the NGI idea (reference to NGI policy documents and see

past NGI events linked on the webpage above for extensive material)

- Understand NGI not only as technological progress but also user-centric ideas with strong non-tech components (behaviour, perception etc.) and assemble your consortium accordingly

## ICT-25-2018-2020 INTERACTIVE TECHNOLOGIES

- Project Type(s): Research and Innovation Action
- Budget: 20mn. € (2-4mn. € per project)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/ict-25-2018-2020.html>
- with a system) in private and professional context
- OR high quality user experience (mobile systems, additional senses, incorporate bio or environmental sensing etc.)

### Summary Topic content:

- Future Interaction
  - Multi-user interaction R&D on technologies augmenting interaction of groups of humans (with each other /

### Summary Expected Impact:

- Strengthening European research and industrial capacities to develop future interactive devices

# CLUSTER DIGITISING EUROPEAN INDUSTRY AND SERVICES: DIGITAL INNOVATION HUBS (DIH) AND PLATFORMS\*

## Policy Context:

- Digitising European Industry is a major policy of the European Commission  
(<https://ec.europa.eu/digital-single-market/en/policies/digitising-european-industry>)
- DIH and Platforms are a complementary, new set of initiatives to help implement this policy
- DIH are targeting the deployment of market-ready new digital technologies and solutions in “traditional” companies with a focus on SMEs by providing Centers of Excellence that offer respective services, test & pilot-facilities up to complete digital solutions

- **Digital Platforms** generally aim at larger companies as innovation drivers or at whole industry sectors / cross-sector solutions.

## Hints:

- Understanding the differences between DIH and Digital Platforms is important when preparing a proposal for this call
- Involvement DIH and Platforms require long-term engagement of involved organisations as well as an extensive set of supporting activities accompanying technological progress. Preparation of proposals is more time consuming than usual

\* refer to past webinar Platforms and Pilots: <https://www.ffg.at/europa/akademie/webinare/aufzeichnungen#“proginfo“>

# DT-ICT-08-2019 AGRICULTURAL DIGITAL INTEGRATION PLATFORMS

- Project Type(s): Innovation Action
- Budget: 30mn. € (up to 15mn. per project)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-08-2019.html>

## Summary Topic content:

- Building platforms integrating various technologies (IoT, cloud, photonics, robotics ...) in combination with data analytics and knowledge management based applications
- High precision data gathering; high degree of data sharing; decision support (including

benchmarking) at farm level

- low-maintenance, robust, scalable; covering supply and demand side
- may contain „cascading funding“\* / mandatory multi-actor approach\*\*

## Summary Expected Impact:

- demonstrate measureable benefits from improved/intensified data and information flow esp. for small farms; including user needs & acceptance aspects; exploitation and validation, new business models

\* refer to past webinar on cascading funding: <https://www.ffg.at/europa/akademie/webinare/aufzeichnungen#special>

\*\* refer to [http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food\\_en.pdf](http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/main/h2020-wp1820-food_en.pdf)

## DT-ICT-10-2018-2019 INTEROPERABLE AND SMART HOMES AND GRIDS

- Project Type(s): Innovation Action
- Budget: 30mn. € (1x up to 30mn.)
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-10-2018-19.html>

### Summary Topic content:

- Exploit IoT reference architectures combining comfort services and energy management, using relevant tech (IoT, AI, cloud, ...)
- Large scale pilot for experimentation and co-creation with users (including feedback mechanisms) in real-life setup; allowing third-party (value added) contributions
- Develop interoperability and data sharing;

aligning existing standards; plug-and-play energy management solution; including all kinds of devices, also electrical vehicles

- Explore need for standardisation/legislation
- Clear business case (marketplace for new services); covering the whole value chain
- “Cascading funding” for SME & Start-ups; connect to similar projects and nat. initiatives

### Summary Expected Impact:

- Market for energy services with opportunities for SMEs; validate concept & user acceptance; development & adoption of IoT Standards; contribution to use of renewables, energy eff.

# DT-ICT-13-2019 DIGITAL PLATFORMS/PILOTS HORIZONTAL ACTIVITIES

- Project Type(s): Coordination and Support Action
- Budget: 4mn. € (2mn. for a), 1mn. for b), c))
- <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/dt-ict-13-2019.html>

## Summary Topic content:

- Support operation of pilot projects in this area & to exploitation of project outcomes; cross-fertilisation, best-practises, increase (technological, geographical) coverage of projects & engagement with external stakeholders; prepare digital platform for construction sector
- a) Coordination of/knowledge transfer

between running/new projects

- b) Legal/regulatory/security support
- c) preparation of digital platform for construction sector

## Summary Expected Impact:

- Connecting Platform-projects, extending an active eco-system (including SMEs, Start-ups); information sharing for horizontal issues; validation of usability, risk, security assessment; gap identification (trust, security, privacy, ...)
- contribute to more sustainable construction sector / productivity improvement



# AUSTRIAN EU PRESIDENCY

## JULY - DECEMBER 2018



## UPCOMING INTERESTING EVENTS

# ICT CONFERENCE 2018, 4.-6. DECEMBER, VIENNA

# ICT 2018

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**VIENNA**  
4-6 DECEMBER

- Largest bi-annual Conference on ICT Research and Innovation in Europe
- Interesting Keynotes, Workshops, Exhibition and Networking, Innovation- and Start-up-Forum
- Registration (free) and Programme:

<https://ec.europa.eu/digital-single-market/en/events/ict-2018-imagine-digital-connect-europe>



# INDTECH2018

## Innovative industries for smart growth

29-31 October, 2018

Vienna, Austria

[www.indtech2018.eu](http://www.indtech2018.eu)

[@IndTech2018](https://twitter.com/IndTech2018)

#IndTech2018

- 1000 expected participants
- 80 speakers from more than 30 countries in Europe and across the globe
- 20 talks in 3 parallel sessions:
  1. Technologies for sustainable growth
  2. Innovative Industry for citizens
  3. Ecosystem and framing conditions
- Interactive discussions in world cafés and fish-bowls
- Matchmaking event
- Site visits to 5 leading Austrian companies
- Exhibition with over 20 leading international organisations
- 10 Thematic Workshops on 29 October

- Messe Wien Exhibition & Congress Center, Messe|



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 767162.

# CYBER SECURITY CONFERENCE, 3.-4. DECEMBER, VIENNA

- Take stock of the developments and achievements of the Cybersecurity work programme of the Trio Presidency (Estonia-Bulgaria-Austria)
- Raising awareness of cybersecurity in Europe and at the level of decision-makers in R&D, Business and Policy

<https://www.eu2018.at/calendar-events/political-events/BKA-2018-12-03-Cybersec-Conference.html>



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**Expert Information and Communication Technologies in H2020**

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