# Research infrastructures SMART PILOTs and H2020

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# Research infrastructures

- play an increasing role in the **advancement of knowledge and technology and their exploitation.** By offering high quality research services to users from different countries, by attracting young people to science and by networking facilities, research infrastructures help to structure the scientific community and play a key role in the construction of an efficient **research and innovation environment**.
- should be leveraged to foster interdisciplinary research, serving a wider remit of research needs, as well as **new users like industry and the public sector.**

# Drafted H2020 RI calls in WP 2018-2020 – subject to change

**Call - Development and long-term sustainability of new pan-European research infrastructures 100M€**

to improve their products, e.g. as experimental test facilities, innovation hubs, knowledge-based centres.

**Call - Interoperability and European Open Science Cloud 250M€**

enhance innovation capacity; create new market opportunities, strengthen the competitiveness and growth of companies

**Call - Integrating and opening research infrastructures of European interest 110M€**

new innovative actors

**Call - European Data Infrastructure 99.50M€**

interaction with industry and SMEs

**Call - Demonstrating the role of Research Infrastructures in the translation of Open Science into Open Innovation 9.5M€**

development of new innovative interdisciplinary services with a view of future integration in the EOSC hub.

**Call - Support to policy and international cooperation 39M€**

making industry better aware of opportunities offered by research infrastructures

## INFRADEV-03-2019: Individual support to ESFRI and other world-class research infrastructures

**Mission:** To support the development of new **world-class research infrastructures** which will help Europe to respond to **grand challenges in science, industry and society.** The aim is to identify the next generation of new research infrastructures as well as to facilitate and support the implementation and long-term sustainability of the research infrastructures identified by the European Strategy Forum on Research Infrastructures (ESFRI) and of other world-class research infrastructures.

Interaction with industry and SMEs and the fostering of the innovation potential of the infrastructures.

Activities may also facilitate the development of Regional Partner Facilities and their integration in the European research infrastructure landscape.

# INFRAEOSC-02-2019: Prototyping new innovative services

**Mission:** To achieve the vision put forward by the *European Cloud Initiative*[3] and make the European Open Science Cloud (EOSC) a reality. The new model will be built around a pan-European service access mechanism – *the EOSC hub* – provided by public e-infrastructure facilities at national, regional, institutional levels. The EOSC hub will provideto all researchers seamless, non-discriminatory and secure access to public and commercial services as well as appropriate access modalities to a wider user community like industry, public sector, citizen scientists, etc.

Develop an agile, fit-for-purpose and sustainable service offering accessible through the EOSC hub that can satisfy the evolving needs of the scientific community by stimulating the design and prototyping of novel innovative digital services.

Consortia are encouraged to include SMEs that are willing to develop or contribute to the development of new innovative interdisciplinary services with a view of future integration in the EOSC hub.

## INFRAIA-01-2018-2019: Integrating Activities for Advanced Communities

**Mission:**To open up key national and regional research infrastructures to all European researchers from both academia and industry as well as ensuring their optimal use and joint development. In addition to serving basic science challenges, Integrating Activities target research infrastructures, ranging across all fields of science and technology, needed to support the EU political priorities and address the Societal Challenges, including Focus Areas. They also target research infrastructures needed to gain leadership in the industrial and enabling technologies.

The strongest impact for advanced communities is expected typically to arise **from focusing on innovation** aspects and widening trans-national and virtual access provision, both in terms of wider and more advanced offer of scientific services, than in terms of number of users and domains served

Integrating Activities should in particular contribute **to fostering the potential for innovation, including social innovation, of research infrastructures by reinforcing the partnership with industry,** through e.g. transfer of knowledge and other dissemination activities, activities to promote the use of research infrastructures by industrial researchers, involvement of industrial associations in consortia or in advisory bodies.

## INFRAINNOV-01-2019: Stimulate the innovation potential of SMEs

**Missio:** To foster the innovation potential of research infrastructures by increasing the involvement of industry (including SMEs) in the development of research infrastructures, and making industry better aware of opportunities offered by research infrastructure to improve their products, e.g. as experimental test facilities, innovation hubs, knowledge-based centres. By working with research infrastructures on the development of advanced technologies industry can raise its technological level and competitiveness.

Proposals are expected to propose a mechanism involving financial support to third parties which will adequately stimulate the **innovation potential of SMEs as users of advanced HPC services**, focusing in the areas addressed by the selected Centres of Excellence in the topic INFRAEDI-02-2018: HPC PPP - Centres of Excellence on HPC, and complementary to the sectors already addressed by other Horizon 2020 activities –i.e. manufacturing SMEs are already covered in I4MS.



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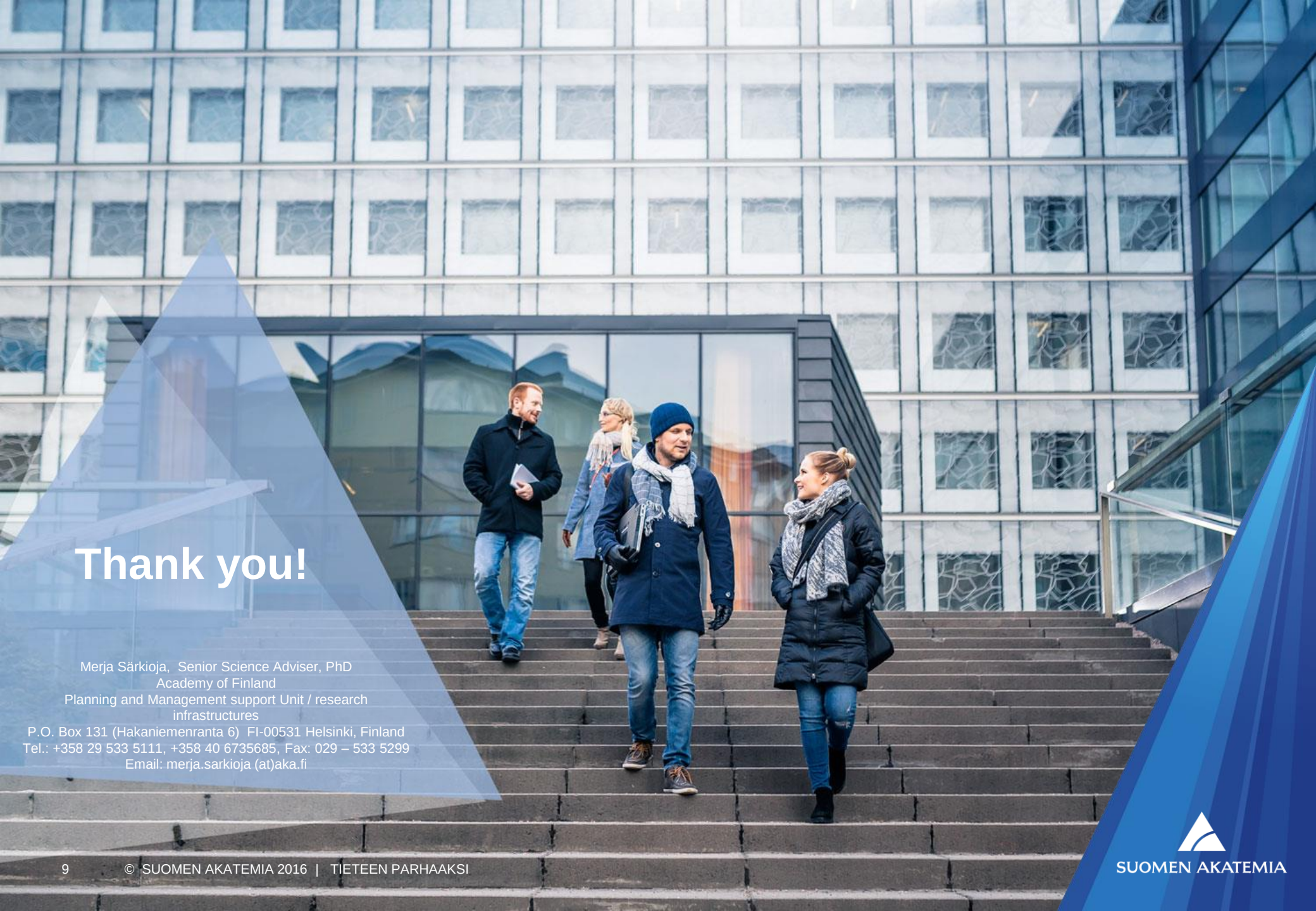
# WP 2018-2020 drafting timetable

- The revised WP will be sent in a few weeks for comments

- Next round for commenting is after the EOSC Summit 12.6.



# Thank you!

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