



Forskningsrådet

Big Data in the H2020 2016-2017 work programme





Throughout H2020 workprogramme 2016-2017

- **FET: Future and emerging technologies**
 - FETOPEN-01-2016-2017: FET-Open research and innovation actions
- **LEIT NMBP (ICT FOR THE FACTORIES OF THE FUTURE)**
 - big data analytics (generally)
- **SC1: Health, demographic change and well-being**
 - C1-PM-01-2016: Multi omics for personalised therapies addressing diseases of the immune system
 - Translate big data and basic research results into clinical applications.
 - SC1-PM-18–2016: Big Data supporting Public Health policies
- **SC2: Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy**
 - SFS-05-2017: Robotics Advances for Precision Farming
 - ... tagging of agricultural produce or livestock for better traceability and subsequent big data processing, optimizing the whole agricultural process.

Throughout H2020 workprogramme 2016-2017

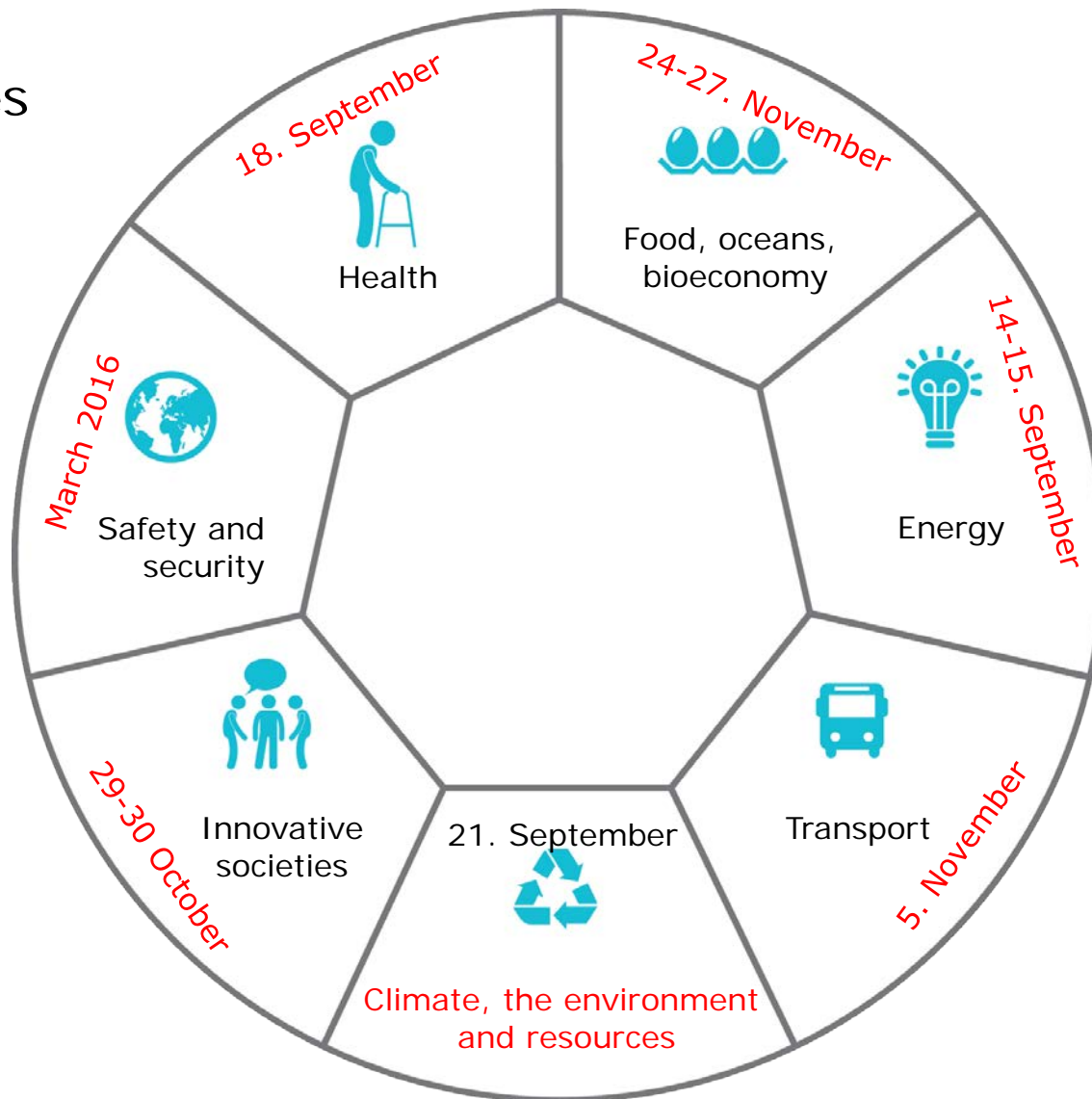
- **SC3: Secure, clean and efficient energy**
 - EE 20 – 2017: Bringing to market more energy efficient and integrated data centres
 - LCE 1 – 2016/2017: Next generation innovative technologies enabling smart grids, storage and energy system integration with increasing share of renewables: distribution network
- **SC4: Transport**
 - MG-3.3-2016: Safer waterborne transport and maritime operations
 - MG-8.2-2017: Big data in Transport: Research opportunities, challenges and limitations (under Section 8. SOCIO-ECONOMIC AND BEHAVIOURAL RESEARCH AND FORWARD LOOKING ACTIVITIES FOR POLICY MAKING)
- **SC5: Climate action, environment, resource efficiency and raw materials**
 - EO-2-2017: EO Big Data Shift
 - SC5-20-2016: European data hub of the GEOSS information system

Throughout H2020 workprogramme 2016-2017

- **SC6: Europe in a changing world – inclusive, innovative and reflective Societies**
 - CO-CREATION-06-2017: Policy-development in the age of big data: data-driven policy-making, policy-modelling and policy-implementation

- **SC7: Secure societies – Protecting freedom and security of Europe and its citizens**
 - SEC-17-BES-2017: Architectures and organizations, big data and data analytics for customs risk management of the international goods supply chain trade movements
 - DS-07-2017: Addressing Advanced Cyber Security Threats and Threat Actors
 - Under Scope (Situational Awareness) The solution may leverage techniques such as anomaly detection, visualisation tools, big data analysis, threat analysis, deep-packet inspection, protocol analysis, etc as well as interdisciplinary research to counter threat actors and their methods.

Societal challenges



Information Days

Big Data in ICT LEIT

**BIG DATA:
55 TIMES IN ICT LEIT**

Big Data in ICT LEIT



Focus Area: Content

- ICT-14-2016-2017: Big Data PPP: cross-sectorial and cross-lingual data integration and experimentation
- ICT-15-2016-2017: Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data-driven innovation
- ICT-16-2017: Big data PPP: research addressing main technology challenges of the data economy
- ICT-17-2016-2017: Big data PPP: Support, industrial skills, benchmarking and evaluation
- ICT-18-2016: Big data PPP: privacy-preserving big data technologies

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- ICT-10-2016: Software Technologies
 - Advanced software development approaches and methodologies:
... tools and mechanisms for managing software quality, including **big data analytics on user feedback and run-time software performance monitoring**;

- ICT-12-2016: Net Innovation Initiative
 - b. Research and Innovation Actions: Distributed architectures
 - To demonstrate how a distributed architecture can enable new data services and disruptive (e.g. commons-based) economic models, and become a viable decentralised alternative to the current dominant data management platforms which are **gathering big data at global scale** in a centralised manner;

Big Data in ICT LEIT

- EUJ-02-2016: IoT/Cloud/Big Data platforms in social application contexts
 - SC1-PM-14–2016: EU-Japan cooperation on Novel ICT Robotics based solutions for active and healthy ageing at home or in care facilities
 - ... handling of big data and IoT data in the cloud.
- Ground-breaking Horizon Prize on Big Data technologies
 - Origin in CSA under ICT-16
 - 2 million Euro!
- FOF-12-2017: ICT Innovation for Manufacturing SMEs (I4MS)

Proposers are encouraged to support the building of pan-European ecosystems of emerging platforms and are expected to collaborate on reinforcing the European I4MS ecosystem, and to establish links to related activities, e.g. ... **big data PPPs**.
- IoT-02-2016: IoT Horizontal activities (CSA)

...foster links between communities of IoT users and providers, as well as with Member States' initiatives, and to connect with other initiatives including contractual Public-Private-Partnerships (e.g. in the area of **Big Data**, ...