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TURKEY<sub>in</sub>  
**HORIZON 2020**  
COOPERATION. INNOVATION. COMPETITIVENESS

Technical Assistance for Turkey in Horizon 2020 Phase-II

EuropeAid/139098/IH/SER/TR

# Turkey in Horizon 2020 II

## Civil Security for Society (Cluster 3)

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#### General & Introductory Training on Civil Security for Society

#### 26<sup>th</sup> May 2021



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



COMPETITIVE  
SECTORS  
PROGRAMME



TÜBİTAK

# At a glance

**DRAFT**

DEST	IA	RIA	CSA	Budget MEUR
Call 1 - Opens June 30 <sup>th</sup> ?? Closes 21/10 and 23/11???				
FCT	8	4		56
BM	3	1	1	30,5
INFRA	2			20
CS		4		67,5
DR	2	2	2	26
SSRI		2	2	16

RIA, Up to 100% funding rate for all, low TRL

IA, Up to 100% for Non Profit and up to 70% for profit, TRL5 and higher

## FCT - Better protect the EU and its citizens against Crime and Terrorism

- Improved prevention, investigation and mitigation of impacts of crime (including those exploiting digital technologies).
- Transpose knowledge into the operational activities of Police Authorities
- New technologies, tools and systems e.g. to analyse in near-real-time large volumes of data, or to combat disinformation
- Security of public spaces and public safety

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# Other important differentiators

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- The involvement of the Police Authorities
- Minimum-needed platform, i.e. tools that are modular and can be easily plugged into another platform (in order to avoid platform multiplication),
- Robust plan on how they will build on the relevant predecessor projects,
- The (active) involvement of citizens, voluntary organisations and communities,
- Education and training aspects, especially for Police Authorities
- Communities of practitioners (CERIS), border and coast guard authorities, and customs authorities.
- International cooperation is also encouraged where appropriate and relevant.

## HORIZON

CL 3 2021 FCT 01 01 Terrorism and other forms of serious crime  
countered using travel intelligence

**DRAFT**

## Expected Outcome

- 1. European security practitioners benefit from better, modern and validated tools and training curricula
- 2. European common approaches are made available to policy makers and security
- 3. Improved support in shaping and tuning of regulation on travel intelligence by security policy makers
- 4. Improved understanding of the capacity and usefulness of travel intelligence in tackling terrorism and other forms of serious crime

## HORIZON

CL 3 2021 FCT 01 02 Lawful interception using new and emerging technologies 5 G beyond, quantum computing and encryption)

**DRAFT**

## Expected Outcome

- 1. EU Police Authorities benefit from better, modern and validated tools and training curricula to anticipate and cope with new and emerging technologies
- 2. EU common approaches to policy makers and security practitioners for analysing risks/threats, and identifying and deploying relevant security measures
- 3. Improved support in shaping and tuning of regulation by security policy makers
- 4. Increased contribution of Police Authorities to standardisation activity in relation with lawful interception and access to digital evidences,
- 5. Improved understanding of the capacity and usefulness of lawful interception in tackling terrorism and other forms of crime,

## HORIZON

CL 3 2021 FCT 01 03 Disinformation and fake news are combated  
and trust in the digital world is raised

DRAFT

- Expected Outcome
- 1. To provide EU Police Authorities, other relevant practitioners and ( media organisations with better, modern and validated tools and training materials
- 2. EU common approaches for policy makers and security practitioners for analysing risks/threats, and identifying and deploying relevant security measures
- Improved understanding of the cultural/societal aspects of disinformation fake news
- Strengthened key personnel's knowledge regarding disinformation campaigns
- Enhanced perception of security thanks to an increased awareness of the citizens

## HORIZON

CL 3 2021 FCT 01 04 Improved access to fighting crime and terrorism research data

DRAFT

- Expected Outcome
- 1. The relevant community ( practitioners, industry, policy makers) is made aware of the legal, ethical and technical pre requisites that a European common research training and testing data repository in the area of fighting crime and terrorism should fulfil  Need of a common research data repository!
- 2. Technical, legal and ethical basis for such a training and testing fighting crime and terrorism research data repository
- 3. EU Security practitioners are provided with an increased interoperability and improved (cross border) exchange of data in harmonised formats
- 4. Improved anonymisation and pseudonymisation technologies



## HORIZON

CL 3 2021 FCT 01 05 Modern biometrics used in forensic science  
and by police

**DRAFT**

- Expected Outcome
- 1. Use of modern, robust, validated, easy to use and reliable biometric technologies by forensic institutes and security practitioners, notably Police Authorities, improving European investigation capabilities to fight terrorism and other forms of serious and organised crime
- 2. Shorter court cases due to the availability of more solid (cross border) forensic evidence that is acceptable in court
- etc
- 7. Providing forensic practitioners active in biometrics with modern training curricula

## HORIZON

CL 3 2021 FCT 01 06 Domestic and sexual violence are prevented and combated

DRAFT

- Expected Outcome:
- Improved prevention, detection and investigation of domestic violence and sexual assaults, including collection of court-proof crime evidence, which take into account European multicultural dimension, legal and ethical rules of operation, as well as fundamental rights such as privacy, protection of personal data and anonymity of victims;
- Enriched European common approaches applied by Police Authorities to fight domestic and sexual violence relying on the synergy of technology, the latest socio-psychological knowledge learned from cases and the field experience of Police Authorities and entities dealing with victims;
- Novel, safe, lawful and efficient solutions applied by security practitioners and policy-makers to protect victims of domestic or sexual violence, along with a proper assessment methodology to validate the approach;

## HORIZON

CL 3 2021 FCT 01 07 Improved preparedness on attacks to public spaces

DRAFT

- Expected Outcome
- 1. Improved vulnerability assessments by law enforcement and local managers of public spaces for preventing terrorist attacks or other forms of severe violence ( mass riots), with explosives, weapons and vehicles
- 2. Better identification of specific vulnerabilities and elaboration of mitigation strategies
- 3. Improved training of Police authorities in collaboration with different public and private actors
- 4. Enhanced planning capabilities of security practitioners and policy makers due to the identification of potential vulnerabilities of different sort of public spaces and measures to reduce them by implementing a comprehensive security by design approach in urban planning (also including aspects of social inclusion)
- 5. Enhanced modelling capabilities of security practitioners, policy makers and RTOs due to the identification of potential vulnerabilities connected to the different public spaces

# HORIZON

## CL 3 2021 FCT 01 08 Fight against trafficking in cultural goods

**DRAFT**

- Expected Outcome
- 1. Robust research methodologies, improved intelligence picture and understanding of mechanisms behind organised crime activities related to trafficking of cultural goods both offline and online, modus operandi, possible nexus with terrorist financing
- 2. Enhanced ability of security practitioners to identify organised crime networks involved in trafficking in cultural goods and to detect their illicit business models, including financial aspects and money laundering activities in this sector
- 3. Improved and validated tools, skills and training materials for EU Police Authorities, Border Guards and Customs Authorities
- 4. Improved databases on stolen/trafficked cultural goods

## HORIZON

### CL 3 2021 FCT 01 09 Fight against organised environmental crime

**DRAFT**

- Expected Outcome
- Improved intelligence picture of organised environmental crime in EU,
- Improved tools and innovative training curricula for EU Police Authorities and Border Guards Authorities .
- Improved cooperation between EU Police Authorities, Border Guards Authorities and other national Authorities
- Improved cooperation with third countries and international actors
- Enhanced ability of security practitioners to identify and prevent emergent and existing organised crime networks involved in environmental crime
- Increased ability of public services to detect places of illegal waste storage
- Improved shaping and tuning of regulation related to the fight against environmental crime by security policy

# HORIZON

CL 3 2021 FCT 01 10 Fight against firearms trafficking

**DRAFT**

- Expected Outcome
- Contribution to the implementation of the 2020 2024 EU Action Plan on firearms trafficking
- Improved intelligence picture of firearms trafficking in Europe
- Harmonised procedures in the investigation of trans border crimes
- Improved cooperation between European Police and Border Guards Authorities, as well as with international actors
- Reduced diversion of firearms into criminal hands in Europe
- Enhanced ability of security practitioners to prevent the emergence of organised crime networks

## HORIZON

### CL 3 2021 FCT 01 11 Prevention of child sexual exploitation

DRAFT

- Expected Outcome:
- Increased understanding of security practitioners and policy-makers of the prevalence and of the process leading to child sexual abuse and child sexual exploitation;
- Enhanced understanding of the characteristics and key differences between offending and non-offending Minor Attracted Persons;
- Developed cross-culturally validated risk assessment tools for child sexual offenders; Enhanced perception by the citizens that Europe is an area of freedom, justice and security thanks to increased security of children;
- Improved cooperation between European Police Authorities and relevant Civil Society Organisations in preventing this form of crime, taking into account fundamental rights;
- Improved evidence-based policy-making related to the prevention of child sexual exploitation.
- Innovative and effective solutions, including training curricula, are validated and adopted by European Police Authorities and relevant Civil Society Organisations

## HORIZON

### CL 3 2021 FCT 01 12 Online identity theft is countered

DRAFT

- Expected outcome
- Improved understanding on the societal aspects and impacts of identity theft, as well as on the key challenges related to it;
- Enhanced perception by the citizens that Europe is an area of freedom, justice and security thanks to innovative awareness-raising campaigns explaining to citizens the key and evolving mechanisms of identity theft and how to protect against them;
- Improved shaping and implementation of regulation related to the fight against identity theft by security policy-makers.
- Strengthened ability of security practitioners to identify (new forms of) online identity theft at an early stage
- European Police Authorities are provided with modern, innovative and validated tools and training curricula, which take into account legal and ethical rules of operation as well as fundamental rights



# BM Effective Management of EU external Borders

- Improved security of EU land and air borders, as well as sea borders and maritime environment, infrastructures and activities,
- Improved border crossing experience for travellers and border authorities
- Improved customs and supply chain security
- Complementary and not overlapping with relevant actions funded by other EU instruments, including projects funded by the Digital Europe Programme as well as European Defence Fund and the European Defence Industrial Development Programme
- Technologies may be taken up by other instruments, such as the Integrated Border Management Fund

DRAFT

## HORIZON

CL 3 2021 BM 01 01 Enhanced security and management of borders, maritime environment, activities and transport, by increased surveillance capability, including high altitude, long endurance aerial support

DRAFT

- Expected Outcome:
- Improved security of maritime infrastructures and maritime transport, including sea harbours and their entrance routes;
- Improved detection of illicit and dangerous goods and/or of threats hidden below the water surface, either threatening infrastructures or vessels, or moving alone or connected to vessels.

## HORIZON

CL 3 2021 BM 01 02 Increased safety, security, performance of the European Border and Coast Guard and of European customs authorities

**DRAFT**

- Expected Outcome:
- Improved capabilities of border management and law enforcement practitioners to identify citizens and the use of identity and travel documents and credentials in the context of border and police checks, for a better, more reliable and more secure experience for citizens and security practitioners, including in connection to optimised e-Government settings;
- Improved capabilities of border management and law enforcement practitioners to defend identity and document/credential management against attacks to their security and attempts to falsify biometrics, identity thefts and online frauds;
- Improved knowledge for European approaches to future identity management systems and document and credential security, building on and integrating with existing tools and respecting the privacy of European citizens.

## HORIZON

CL 3 2021 BM 01 03 Improved border checks for travel facilitation  
across external borders and improved experiences for both passengers and  
border authorities' staff

**DRAFT**

- **Expected Outcome:**
- Portable or easily deployable solutions used in customs inspections for detecting threat agents such as drugs, including new psychoactive substances;
- Improved capacities of customs authorities to acquire, analyse, share drugs spectra, and detect new drugs in the context of customs inspections.

## HORIZON

CL 3 2021 BM 01 04 Advanced detection of threats and illicit goods in postal and express courier flows

DRAFT

- Scope
- To test and validate, within the project, of developed tools and solutions in an operational environment for detection of threats and dangerous and illicit goods include explosives and explosive precursors, CBRN material, drugs, cash, contraband or counterfeit items, including counterfeit identity documents, and fake medicines

## HORIZON

CL 3 2021 BM 01 05 Improved detection of concealed objects on,  
and within the body of, persons

DRAFT

- Scope
- To develop and test in operational environments advanced solutions to detect objects concealed on persons, or hidden inside the body of persons It should be harmless for users and operators (avoiding ionizing radiation, and include the assessment of the risk of any kind of toxic substances and/or potentially harmful techniques), provide fast detection and include easily deployable devices
- Detection of weapons (including non metallic weapons) explosives (combined or not with electronics), including homemade explosives ( and improvised explosive devices ( other threats and illicit goods such as drugs, tobacco or currency, concealed under or in the clothes or bags of individuals as well as within the individuals' bodies

# INFRA Resilient INFRAstructures

DRAFT

- Ensured resilience of large-scale interconnected systems infrastructures in case of complex attacks, pandemics or natural and man-made disasters;
- Upgraded infrastructure protection and response, without substantial human intervention
- Better assess risks
- Strategic autonomy of European infrastructures;
- Resilient and secure smart cities

## HORIZON

### CL 3 2021 INFRA 01 01 European infrastructures and their autonomy safeguarded against systemic risks

**DRAFT**

- Expected Outcome
- 1. Improved large scale vulnerability assessments of EU Member States' ( or Associated Countries' ( key infrastructures covering one or more types of infrastructure ( water, communications, transport, finance etc in more than two MS/AC
- 2. Improved cooperation to counter Hybrid Threats and subsequent large scale disruptions of infrastructures in Europe allowing for operational testing in real scenarios or realistic simulations of scenarios with specific regard to the cross border dimension (intra EU as well as non EU)
- 3. Improved concepts and instruments for the anticipation of systemic risks to European infrastructure allowing for comprehensive long term risk assessments, with regards to climate change, technological trends, foreign direct investment ( and dependence on critical supplies from non EU countries
- 4. Improved risk, vulnerability and complexity related assessments for interconnected physical digital EU infrastructures aiming to increase security, resilience and design effective preventive, mitigating and preparedness measures and protect against and respond to cascading effects
- etc



## HORIZON

CL 3 2021 INFRA 01 02 Ensured infrastructure resilience in case of Pandemics

**DRAFT**

- Expected Outcome:
- Strategies for the resilience of infrastructure networks and services, and their interaction and vulnerabilities in a context of rapidly changing volumes and patterns of use
- Understanding of inter-dependencies and strategies to overcome disruptions at local – regional – national and European (cross-border) level
- Better understanding of the cascading effects of pandemics for different infrastructures and the services they provide

# CS : Increased cybersecurity and a more secure on line environment

DRAFT

- Research and innovation will build on the results of Horizon 2020 such as the pilot projects funded under SU-ICT-03-2018 and other activities (e.g. carried out by ENISA or relevant parts of work of the EIT Digital)
- Future objectives of the Cybersecurity Competence Centre and Network of National Coordination Centres (Commission proposal COM(2018)). They will be complementary to actions under the Digital ~~Europe~~ Programme
- Cybersecurity is a horizontal challenge and is not be limited to Horizon Europe Cluster 3
- Joint Cyber Unit : <https://ec.europa.eu/digital-single-market/en/news/eus-cybersecurity-strategy-digital-decade> (Joint Cyber Unit would not be an additional, standalone body or affect the role and functions of existing authorities, but it would help bring them together)

# Impacts

DRAFT

- Strengthened EU cybersecurity capacities and European Union sovereignty in digital technologies
- More resilient digital infrastructures, systems and processes
- Increased software, hardware and supply chain security
- Secured disruptive technologies
- Smart and quantifiable security assurance and certification shared across the EU
- Reinforced awareness and a common cyber security management and culture

## HORIZON

CL3 2021 CS 01 01: Dynamic business continuity and recovery methodologies based on models and prediction for multi level Cybersecurity

**DRAFT**

- Expected Outcome
- Advanced self healing disaster recovery and effective business continuity in critical sectors (e g energy, transportation, health)
- Enhanced mechanisms for exchange of information among relevant players
- Better disaster preparedness against possible disruptions, attacks and cascading effects
- Better business continuity covering two or more sectors

## HORIZON

CL3 2021 CS 01 02: Improved security in open source and open specification hardware for connected devices

**DRAFT**

- Expected outcomes
- Reduced security threats of open source hardware for connected devices
- Formal verification of open hardware
- Effective management of cybersecurity patches for connected devices in restricted environments such as IoT devices
- Effective security audits of open source hardware embedded software and other security relevant aspects of connected devices
- etc

# HORIZON

## CL3 2021 CS 01 03: AI for cybersecurity reinforcement

DRAFT

- Expected outcomes
- Reinforced cybersecurity using AI technological components and tools in line with relevant EU policy, legal and ethical requirements
- Increased knowledge about how an attacker might use AI technology in order to attack IT systems
- Digital processes, products and systems resilient against AI powered cyberattacks

## HORIZON

CL3 2021 CS 01 04: Scalable privacy preserving technologies

for cross border federated computation in Europe involving personal data

**DRAFT**

- Expected outcomes
- Improved scalable and reliable privacy preserving technologies for federated processing of personal data and their integration in real world systems
- More user friendly solutions for privacy preserving processing of federated personal data registries by researchers
- Improving privacy preserving technologies for cyber threat intelligence and data sharing solution
- Contribution to promotion of GDPR compliant European data spaces for digital services and research (in synergy with topic DATA 01 2021 of Horizon Europe Cluster 4
- Strengthened European ecosystem of open source developers and researchers of privacy preserving solutions

# DRS: A Disaster resilient society for Europe

- Proposals **MUST** cover one or several of these impacts
- **MUST** build on previous projects
- Enhanced understanding and improved knowledge and situational awareness of citizens empowered to act in case of a disaster
- More efficient cross sectoral, cross disciplines, cross border coordination of the disaster risk management cycle
- Enhanced sharing of knowledge and coordination regarding standardization
- Strengthened capacities of first responders

DRAFT



## HORIZON

CL3 2021 DRS 01 01: Improved understanding of risk exposure and its public awareness in areas exposed to multi hazards

DRAFT

- Expected outcomes
- Advanced disaster crisis simulations and impact assessments supporting decision making processes based on best available knowledge, adaptive strategies and methodologies
- Risk and resilience assessment solutions, studies and outputs in support of long term multi hazard management strategies (e.g. climate adaptation, disaster risk reduction and prevention and mitigation strategies) with a focus on vulnerable regions prone to multiple hazard occurrences
- Advanced data management, information update and forecast early warning systems (including via satellite and in situ observation) in support of evolving public understanding and decision making needs in the field of multi hazard preparedness policy and planning,

## HORIZON

CL3 2021 DRS 01 02: Integrated Disaster Risk Reduction for extreme climate events: from early warning systems to long term adaptation and resilience building

DRAFT

- Expected outcomes
- Improved dialogue and cooperation among scientific and technical communities, stakeholders, policy makers and local communities in the field of extreme climate events and disaster risk reduction
- Enhanced community engagement for prevention, preparedness, response, recovery and learning to extreme climate events
- Strengthening of disaster risk reduction and resilience building through innovative use of media means

CL3 2021 DRS 01 03: Enhanced assessment of disaster risks, adaptive capabilities and scenario building based on available historical data and projections

DRAFT

- Expected outcomes
- Innovative exposure and vulnerability analysis methods including those that take a systemic perspective by integrating sectoral expertise
- Maximising usability through a service oriented approach including through the optimisation and tailoring recommended practices, scientific models and scenarios for the intended users
- Enhanced exploitation of monitoring data and satellite/remote sensing information as well as artificial intelligence to improve high level assessment from international to local levels,
- Evaluation of existing disaster risk and resilience assessment and scenarios (at national and local levels), taking into account historical geological data, monitoring, risk and forecasting data

## HORIZON

CL3 2021 DRS 01 04: Developing a prioritisation mechanism for research programming in standardisation related to natural hazards and/or CBRN E sectors

**DRAFT**

- Expected outcomes
- Building up on existing initiatives development of a consolidated platform gathering key actors involved in DRM for natural hazards and/or CBRN E to identify on going standardisation activities, discuss key features related to them, including classification, and prioritise actions (dissemination, research programming)
- Establish a standardisation roadmap at international ( and European ( levels, leading to improved coordination of activities at EU and international levels and cross fertilisation among different sectors

## HORIZON

CL3 2021 DRS 01 05: Fast deployed mobile laboratories to enhance situational awareness for pandemics and emerging infectious diseases

**DRAFT**

- Expected outcomes
- Inventory and comparison of existing mobile laboratories including heavy structures (both military and civilian) and light self sustained systems, evaluation of quality management systems for maintenance, validation and testing
- New (mobile laboratory) solutions for the fast, reliable and unambiguous detection and identification of infectious agents, diagnostic tests, monitoring and mapping of contamination and enhanced field data communication to decision making authorities
- Strategies to orchestrate mobile laboratory capacities in the EU and improvements in the management of trained staff in Europe

# SSRI: Strengthened Security Research and Innovation

- Key challenge in improving the uptake of innovation.
- Market fragmentation, cultural barriers, analytical weaknesses, programming weaknesses, ethical, legal and societal considerations or lack of synergies
- Create a favourable environment
- Serve equally to all the expected impacts of Cluster 3

DRAFT

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- Ensuring that security R&I maintains the focus on the potential final use of its outcomes;
- Contributing to a forward-looking planning of EU security capabilities;
- Ensuring the development of security technologies that are socially acceptable;
- Paving the way to the industrialisation, commercialisation, acquisition and deployment of successful R&I outcomes;
- Safeguarding EU autonomy and technological sovereignty in critical security areas by contributing to a more competitive and resilient EU security technology and industrial base.

# Impacts

DRAFT

- Evidence-based development of EU civil security capabilities
- Increased industrialisation, commercialisation, adoption and deployment of successful outcomes
- R&I-enabled knowledge and value in cross-cutting matters
- Break thematic silos



## HORIZON

### CL3 2021 SSRI 01 01: A maturity assessment framework for security technologies

DRAFT

- Expected outcomes
- Increased literacy on the value and efficient use of maturity assessment frameworks to communicate the readiness of technology synchronise parallel developments, forecast implementation and support decision making in the planning of investment in the area of security
- Improved cross disciplinary assessment of the maturity of innovative technologies based on common harmonised frameworks for the security domain
- Comprehensive and timely updated map of the maturity of the security solutions developed through EU funded security research and innovation programmes enabled by widely accessible assessment tools and methods
- Evidence based programming of security research built on a more reliable assessment of the state of the art technologies in the field of security

## HORIZON

### CL3 2021 SSRI 01 02: Knowledge Networks for Security Research & Innovation

**DRAFT**

- Expected outcomes
- Enhanced analytical capacity to support the programming of EU funded security research and capacity building funds
- More systematic assessment and validation of the outcomes of EU funded security research projects
- Map of opportunities and constraints for the exploitation of EU security research and innovation projects map of areas requiring standardised solutions and/or certification schemes
- Enhanced cooperation between research institutions, smaller private research agencies, security practitioners, SMEs and community representatives
- Continuation and complementarity with the Networks of Practitioners funded under the Horizon 2020 SC 7

## HORIZON

CL3 2021 SSRI 01 04: Demand led innovation for situation awareness in civil protection

DRAFT

- Expected outcomes
- 1. An identifiable community of EU first responders with common user/functional needs for innovative technology solutions for situation awareness in the field of civil protection
- 2. Tested and validated capacity of EU technology and industrial base to develop and produce technology prototypes for situation awareness in the field of civil protection that meet the needs of the EU user community
- 3. Improved delineation of the EU market (including demand and supply) for situation awareness systems in the field of civil protection that can articulate alternative options for uptake in function of different industrialisation needs, commercialisation needs, acquisition needs, deployment needs and additional funding needs (beyond R&I funding)

## HORIZON

CL3 2021 SSRI 01 05: Societal Impact assessment and  
impact creation transdisciplinary methods for security research  
technologies driven by active civil society engagement

**DRAFT**

- Expected outcomes
- Promotion of socially and environmentally sustainable products and services through stronger civil society engagement
- Policy makers, security practitioners and the research community implement security technological solutions and policies that fulfil both societal and legal requirements,
- State and non state actors base their decision making on an assessment of any possible negative societal impacts of security research outputs, including human rights implications and risks of ill intended use

# Where to search?

- CoU is becoming CERIS, <https://www.securityresearch-cou.eu/>
- Position papers of EOS, ASD, EARTO and PASAG
- SMIG2G event (31/5-1/6)
- Info day (maybe end of june?)
- Innovation days (23-24/6)



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