NCPs AND FOCUS AREAS

- As a reminder, €7bn devoted to focus areas in the new work programme.

- Focus areas are 'virtually linked calls', which constitute the linking of calls/topics from respective parts of Horizon 2020.

- The rational and objectives of the four focus areas are described in the General Introduction, which needs to be taken into account in the evaluation where relevant.

- Contributing calls and topics are clearly marked (common call identifier).

- It is important that FA are seen as integral whole, and not just labelled topic (e.g. common briefing material for experts; project monitoring).

- NCP should play their role.

NCPs AND FOCUS AREAS

- Building a low-carbon, climate resilient future: H2020-**LC**-2018-2020

- Digitising and transforming European industry and services: H2020-**DT**-2018-2020

- Connecting economic and environmental gains – the Circular Economy: H2020-**CE**-2018-2020

- Boosting the effectiveness of the Security Union: H2020-**SU**-2018-2020

European Commission

Focus Area *'Building a low-carbon, climate resilient future'*

Covers the main actions in Work Programme 2018-2020 which can contribute to the goals of the Paris Agreement
- limit global temperature rise to well below 2°C, make efforts to limit this to 1.5°C;
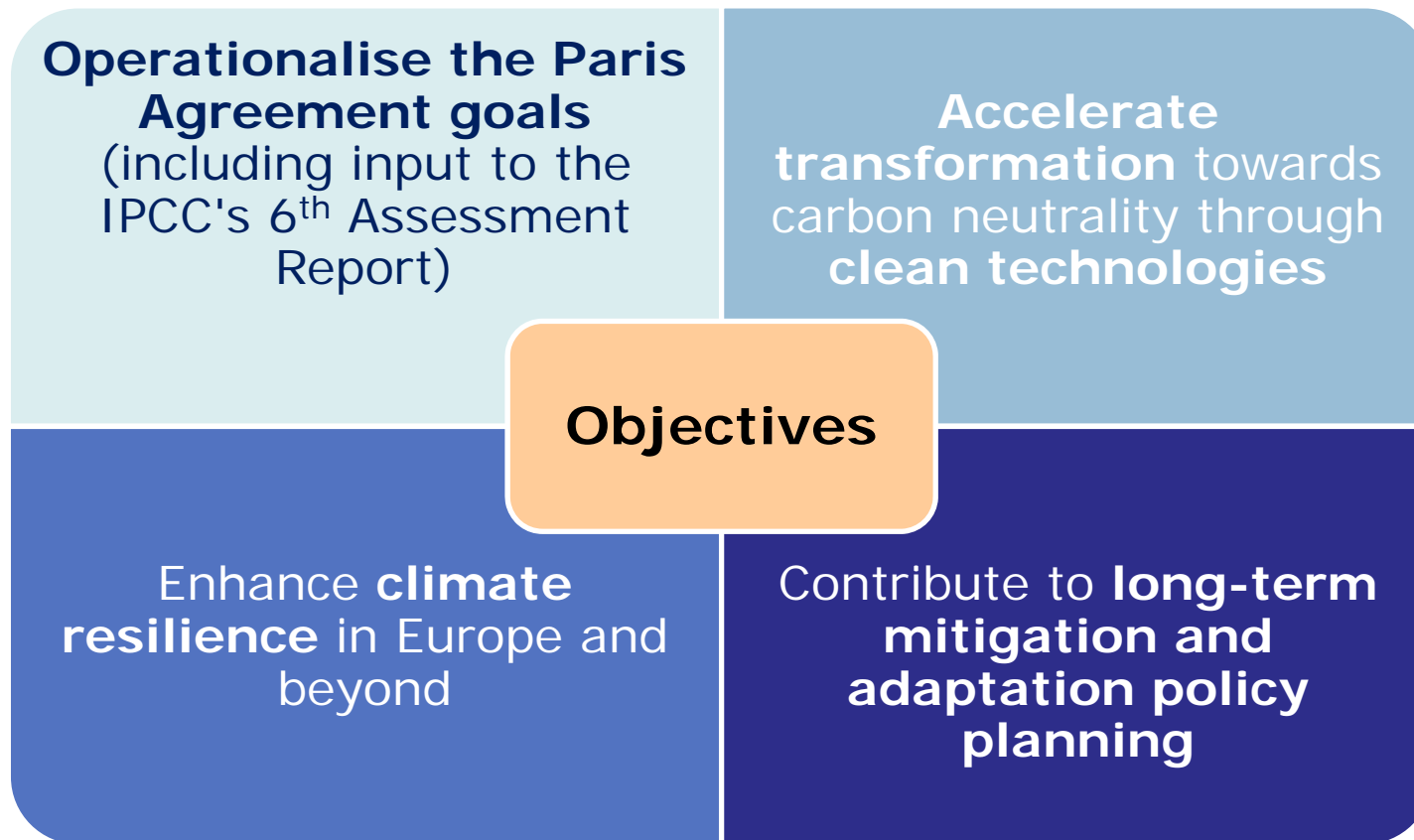- enhance adaptive capacity, strengthening resilience and reducing vulnerabilities;

Aims to develop ground-breaking solutions capable of achieving carbon neutrality and climate resilience of Europe and beyond in the second half of the century

Integrating multiple angles of society, economy, technology, industrial value chains, the energy system, environment, health, land use and governance

Total indicative budget (2018-2020): EUR 3 343 million
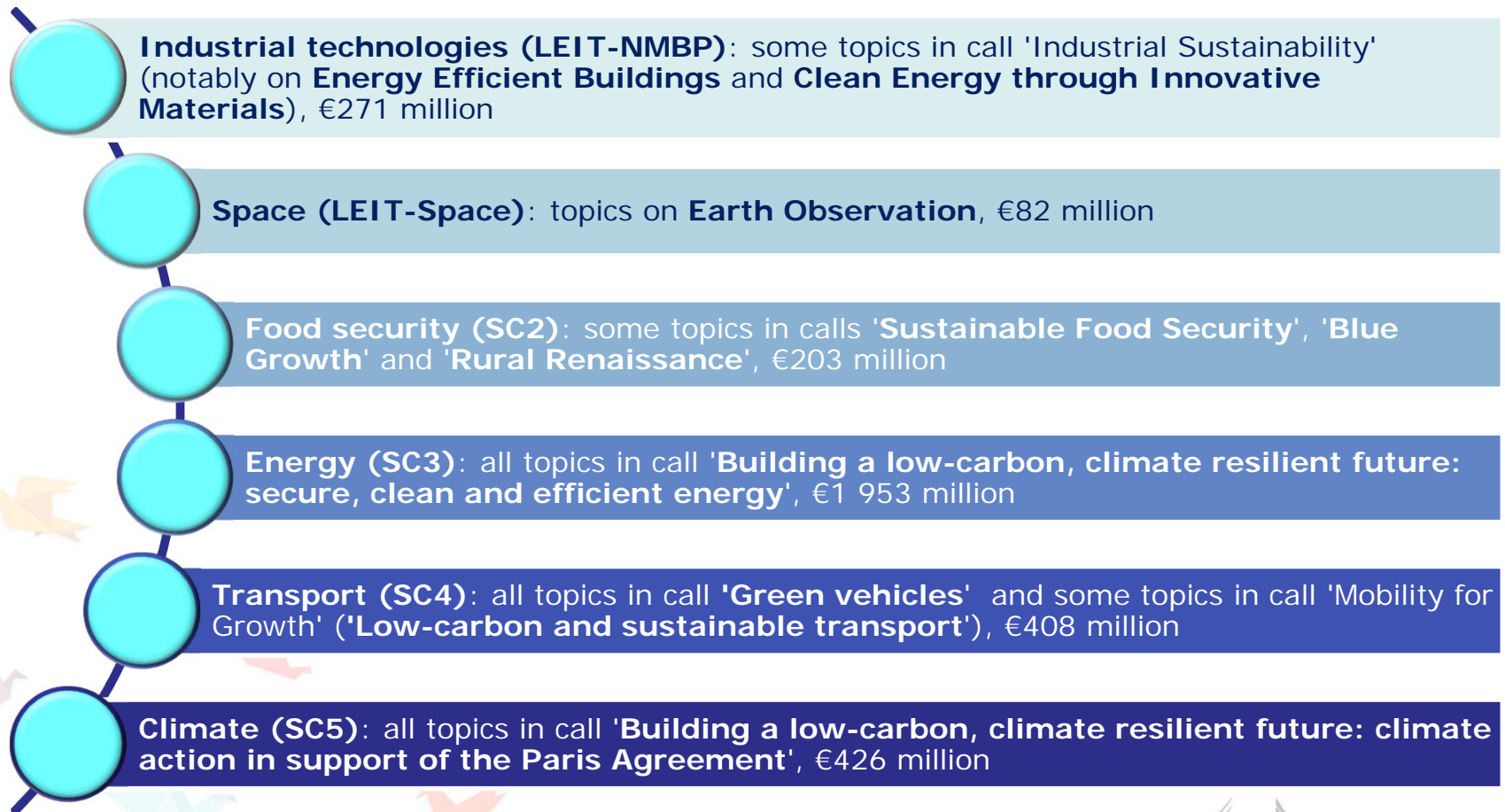
13 CLIMATE ACTION

7 RENEWABLE ENERGY

9 INNOVATION AND INFRASTRUCTURE

14 LIFE BELOW WATER

15 LIFE ON LAND

8 GOOD JOBS AND ECONOMIC GROWTH

11 SUSTAINABLE CITIES AND COMMUNITIES

European Commission

Focus Area '*Building a low-carbon, climate resilient future*'

Operationalise the Paris Agreement goals (including input to the IPCC's 6th Assessment Report)

Accelerate transformation towards carbon neutrality through **clean technologies**

Objectives

Enhance **climate resilience** in Europe and beyond

Contribute to **long-term mitigation and adaptation policy planning**

European Commission

Focus Area - 'Building a low-carbon, climate resilient future'

Industrial technologies (LEIT-NMBP): some topics in call 'Industrial Sustainability' (notably on **Energy Efficient Buildings** and **Clean Energy through Innovative Materials**), €271 million

Space (LEIT-Space): topics on **Earth Observation**, €82 million

Food security (SC2): some topics in calls '**Sustainable Food Security**', '**Blue Growth**' and '**Rural Renaissance**', €203 million

Energy (SC3): all topics in call '**Building a low-carbon, climate resilient future: secure, clean and efficient energy**', €1 953 million

Transport (SC4): all topics in call '**Green vehicles**' and some topics in call 'Mobility for Growth' ('**Low-carbon and sustainable transport**'), €408 million

Climate (SC5): all topics in call '**Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement**', €426 million

European Commission

'Connecting economic and environmental gains – the Circular Economy'
Focus Area

Covers the main actions in Work Programme 2018-2020 which will directly **support the circular economy policy**

— integrating production, consumption, waste management and raw materials

* Ensure that growth no longer requires increasing consumption of resources, energy, water and primary raw materials

* Minimise waste, including from plastics

* Enhance industrial competitiveness

SDGs:

Total indicative budget (2018-2020):

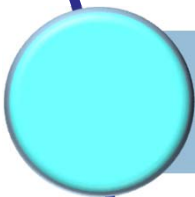**EUR 940 million**

European Commission

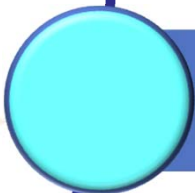# 'Connecting economic and environmental gains – the Circular Economy' Focus Area
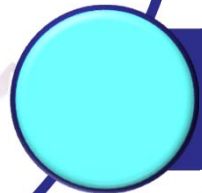
Industrial technologies (LEIT-NMBP): topics in call 'Industrial Sustainability' (notably **Sustainable Process Industry** and **Catalysing the Circular Economy**); and in industrial biotechnology: €370 million

Food security and Bioeconomy (SC2): topics in calls '**Sustainable Food Security**', '**Blue Growth**' and '**Rural Renaissance**', including **access to risk finance**: €253 million

Energy (SC3): Carbon dioxide reuse: €12 million

Climate, Environment and Raw Materials (SC5): topics in call '**Greening the economy in line with the SDGs**' – circular economy and raw materials: €306 million

European Commission

Focus Area
'Digitising and transforming European industry and services'

Covers the main actions of the work programme addressing the priorities of the Digital Single Market Strategy of the EC and helping seizing the opportunities offered by digital technologies.

Aims to contribute to:
- enabling all sectors to adapt, transform and benefit from digitisation;
- developing new business models;
- connecting to MS and regions,
- removing barriers for innovation enabled by digitisation.

Integrates R&I related to major technological trends with application-driven initiatives through a multidisciplinary approach.

Total indicative budget (2018-2020): EUR 1 689 million

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

8 DECENT WORK AND ECONOMIC GROWTH

3 GOOD HEALTH AND WELL-BEING

7 AFFORDABLE AND CLEAN ENERGY

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

2 ZERO HUNGER

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

European Commission

Focus Area
'Digitising and transforming European industry and services'

Support the implementation of the **DEI strategy**, notably through **innovation hubs**, **platforms** and large-scale **pilots**

Foster the **uptake of digital technologies** and innovations, as well as **synergies with other KETs**

Objectives

Leverage possibilities offered by ICT to **address major societal challenges**

Address and prepare Europe for the **societal impact of the digital transformation**

European Commission

Focus Area

'Digitising and transforming European industry and services'

LEIT- **Information and Communication Technologies**: Digital Innovation Hubs, platforms and large-
scale pilots, € 461 million
LEIT-**Nanotechnologies, advanced materials, biotechnology, advanced manufacturing and**
processing open innovation test beds, computational modelling, factories of the future, €703 million
LEIT - **Space:** Copernicus and EGNSS market uptake, space hubs, €59 million

Health and wellbeing (SC1): smart and healthy living at home, smart hospital, €60 million

Food security (SC2): digital innovation hubs and platforms for agriculture and rural economies + several topics in all three calls, €107 million

Energy (SC3): smart homes and grids, Big Data for energy, €30 million

Transport (SC4): automated road transport, €103 million

Innovative, inclusive and reflective societies (SC6): modernisation of public services, new
approaches to policy making, digitisation of cultural heritage, inclusion, €166 million

European Commission

Focus Area
'Boosting the effectiveness of the Security Union'

Covers the main actions in Work Programme which contribute to **developing the EU as a Security Union**:

- reacting to & recovering from natural and man-made disasters
- fighting crime (including cybercrime) and terrorism
- improving border security
- protecting infrastructure and public spaces
- digital security and privacy
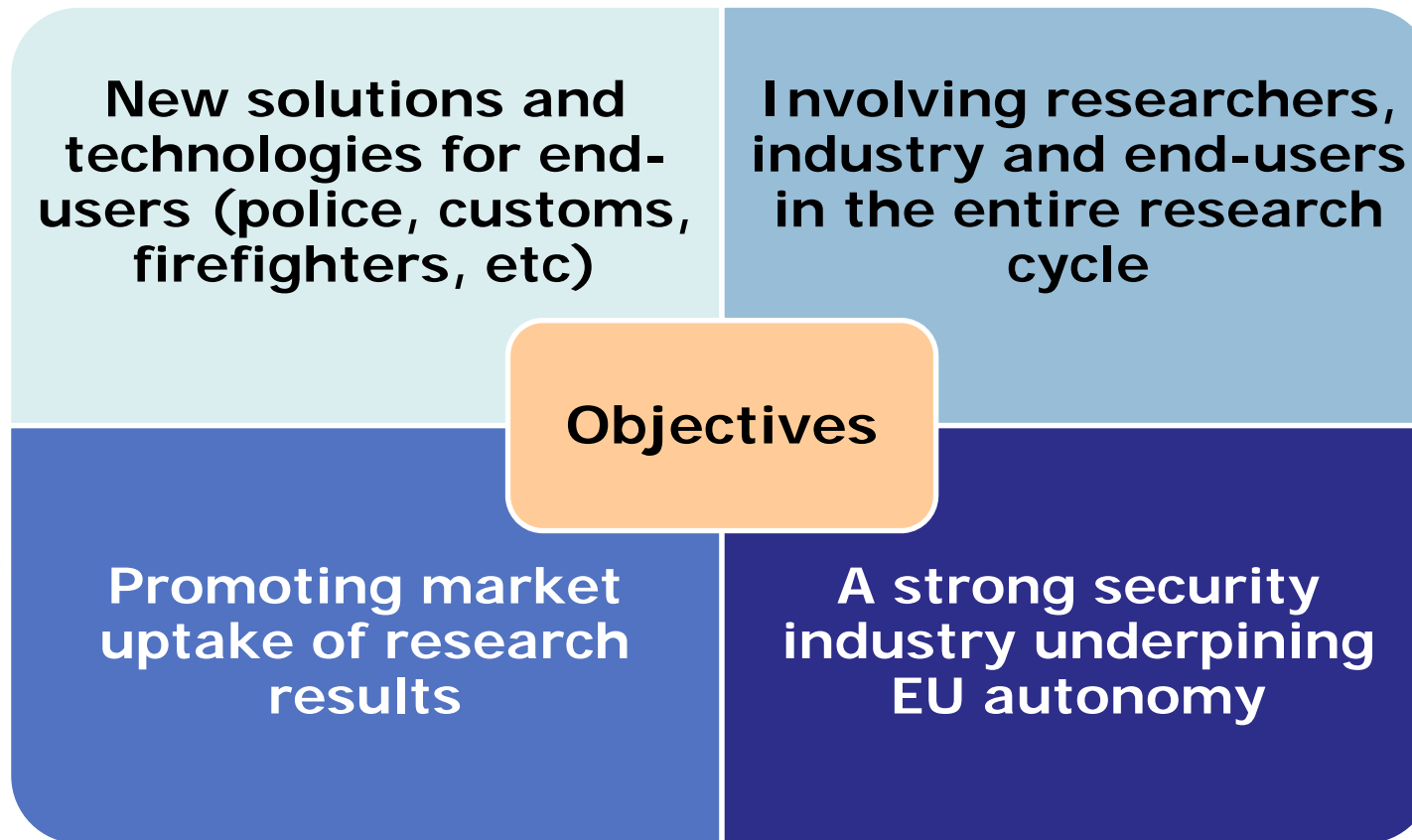- better understanding of societal contexts of security challenges

SDGs:

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

11 SUSTAINABLE CITIES AND COMMUNITIES

Total indicative budget (2018-2020):

EUR 1 billion

European Commission

Focus Area
'Boosting the effectiveness of the Security Union'

New solutions and technologies for end-users (police, customs, firefighters, etc)

Involving researchers, industry and end-users in the entire research cycle

Objectives

Promoting market uptake of research results

A strong security industry underpining EU autonomy

European Commission

Focus Area
'Boosting the effectiveness of the Security Union'

Cyber and Digital Security: all topics in calls **'Cyber Security'** (**LEIT-ICT**) and **'Digital Security'** (**SC7**), **€290 million**

Space (LEIT-Space): topics in calls **'Space 2018-2020'** and **EGNSS market uptake 2019-2020'**, €90 million

Health (SC1): topics in Call **'Trusted digital solutions and Cybersecurity in Health and Care'**, €36 million

Energy (SC3): contribution to topic on Electrical Power and Energy System in SC7 call **'Digital Security'**, €20 million

Inclusive Societies (SC6): topics on trafficking of cultural goods, drivers of violent extremism, addressing radicalisation through inclusion, €30 million

Secure Societies (SC7): all topics in calls **'Security'** and **'Infrastructure Protection'**, €615 million

European Commission