

Industrial Ecosystems in Europe

- · Social enterprises, associations and cooperatives aiming at generating a social impact, often proximity based
- Retail sales
- · Wholesale connected to consumers

Retail

Construction

Digital

Health

- Building of residential and non-residential estates
- · Building of roads and railways,
- · Building of utilities and civil engineering
- · Associated activates
- Telecommunications
- · Software publishing, computer programming and consultancy
- Data processing, hosting, web portals
- Manufacturing of computers, communication equipment and consumer electronics
 - Pharmaceuticals and other medical products
 - Personal protective equipment
 - Medical services, hospitals, nursing homes, residential care

- Passenger transport and travel
- · Hotels, short term accommodation
- · Restaurants and catering
- Events, theme parks

Proximity & Social **Tourism Creative &** Cultural **Industries**

- Newspapers, books and periodicals
- Motion picture, video and television
- · Radio and music

Aerospace & Defence

- Aircraft production
- Space manufacturing and services
- Defence products and technologies

Industrial **Ecosystems for the** Recovery

 Production of textiles, wearing apparel, footwear, leather and, jewellery

Electronics

- Raw starting materials (semiconductor wafers)
- Semiconductor manufacturing tools
- Design and manufacturing of semiconductor components

Mobility -Transport -**Automotive**

Energy-

Intensive **Industries**

- Production of motor vehicles, ships and trains, and accessories
- Their repair and maintenance
- Transport

- Plant and animal production
- Processing of food

Renewable **Energy**

- Raw materials
- Manufacturing of products with high environmental impact: chemicals, iron and steel, forest-based products, plastics, refining, cement, rubber, non-ferrous metals, fertilisers, etc.



- Electric power generation
- · Manufacturing and distribution of gas



Aerospace & Defence ecosystem



1,6% of EU value added



1,5 Mn employees

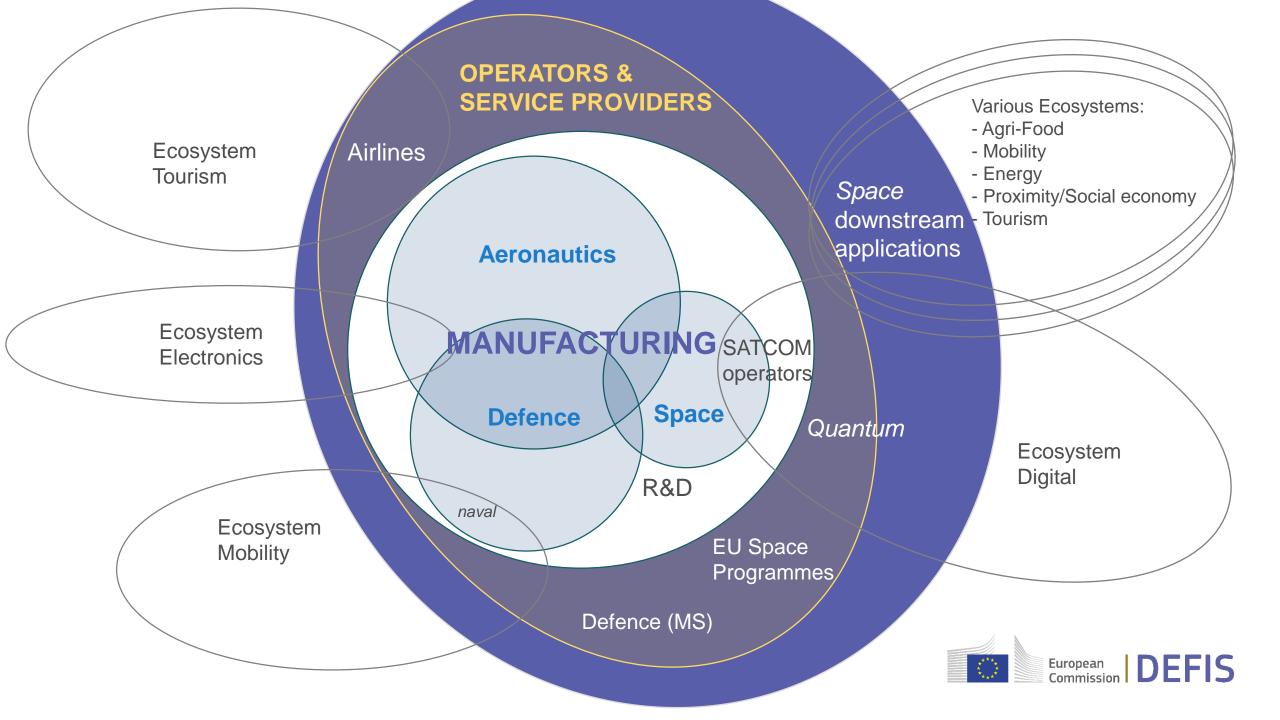


€376 billion in turnover



44,000 companies





COVID-19 impact : commercial aeronautics

Sudden and brutal collapse





- > 16,500 of + 29,000 aircraft worldwide grounded
- 19 airlines went bankrupt, 4 airlines stopped activities
- €106 Bn estimated loss of revenue 2020-2022 (source: ASD)



COVID-19 impact : defence

- Significant impact on sales in 2020;
- Lower order intakes for the next 3 years, particularly in export markets;
- Adverse impact on productivity, costs structure, competitiveness, innovation, technological edge, private investment, and industrial performance/supply.



COVID-19 impact: space

- €1.2 Bn reduction of revenues and €1.4 Bn reduction of backlog (2020);
- Extended impacts over the next 5 years;
- Institutional customers (EU, ESA, national agencies) likely to maintain payment schedules despite production/delivery delays;
- Commercial and export customers (satellites): impacted if production and launch activities do not resume in full.



Outlook – stakes: the industry views

- Competitiveness of the whole European Aerospace and Defence industry;
- Loss of engineering capacities risks to permanently endanger technological leadership;
- US and China are heavily supporting their industry (loans to airlines, subsidies via space and defence budgets);
- Rapid resumption of commercial air traffic is crucial for recovery;
- Drivers for the development of global economies and emerging regions remain unchanged;
- EU's strategic autonomy is at stake.



Challenges - industry expectations

ASD sector to be considered as strategic in the EU and all MS

A Recovery Plan

The way back to normality will be long.

A Union that delivers

- Mobilise sufficient resources to support Member States;
- Deploy new and innovative instruments to meet the requirements of the crisis;
- Focus investment on key technologies and strategic areas that will strengthen Europe's long-term competitiveness;
- Appropriate legislative & regulatory measures to support trade, growth and employment.

An ambitious MFF – the centerpiece of the European recovery plan

- Focus investments on high-tech sectors (added-value & multiplier effects);
- A budget commensurate to the challenges at stake: programmes that foster innovation and technological sovereignty are key drivers for the recovery and must be funded at least at the level initially proposed by the Commission.

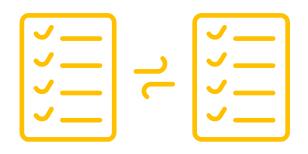


Challenges - industry expectations

- Review EU Policies and programmes
 - Adapt policies, concepts and objectives; Strategic Value Chains and Technological Sovereignty;
 - Digital transformation a top priority. Technologies core to digitalisation (Cloud, HPC, Big Data, 5G, AI, space connectivity) are cross-sectorial and dual-use;
 - EU programmes such as Digital European Sky, European Defence Fund, Integrated Border Management Fund, Factories of the Future or Digital Europe, play a crucial role;
 - Duplications must be avoided, technological sovereignty in key areas must be fostered;
 - Security and continuity must be an integrated part of industrial digitalisation;
 competitiveness, level-playing-field and strengthen resilience.

 European DEFIS

Preliminary conclusions



- Aerospace and defence ecosystem strongly affected by the crisis;
- Major impact still likely to come (loss of demand, loss of skills);
- Risk for Europe to lose its technological leadership in a strategic sector;
- EU and MS need to join forces to tailor support to this ecosystem that is critical for EU's strategic autonomy.



Thank you

