**Activities 2019–2021**

- **INNOVATIONS, NEW AREAS OF APPLICATION**
  - Initiate strategic investments 2019
  - Calls 2019–2021

- **VALUE CHAINS, BUSINESS MODELS**
  - Initiate strategic investments 2020
  - Calls 2019–2021

- **INFORMATION INFRASTRUCTURE**
  - Initiate strategic investments 2019
  - Calls 2019–2021

- **KNOWLEDGE AND SKILLS**
  - Initiate strategic investments 2020
  - Calls 2019–2021

**Results 2021**

- **CROSS-THEMATIC**
  - 4 calls completed, address all thematic areas
  - X projects granted and implemented
  - X published scientific articles

- **INNOVATIONS, NEW AREAS OF APPLICATION**
  - Strategy for strategic initiatives developed and initiatives initiated
  - “Building innovation 2”, method developed and 3-4 calls completed
  - Projects with disruptive elements

**Short-term effects 2021**

- **Improved information flow**
  - Increased integration of BIM-GIS used in software
  - Improved continuous information flow

- **Data openly accessible for construction, use and maintenance**
  - Object-based information has contractual status

- **New industry practices and legislation that support digital data sharing**
  - Solutions for liability, ownership & use rights of digital information

- **Streamlining**
  - Increased productivity in the sector
  - Reduced resource consumption and process waste
  - More efficient government processes

- **Lifecycles**
  - Digital data, analysis and optimisation, and industrialisation result in less greenhouse gas emissions and lower energy use
  - CO2 and energy declared in EPDs
  - Reduced environmental and building product declarations available and used in digital format

- **Knowledge-building and renewal**
  - 5 innovations based on open data
  - Research results are used for validation and risk assessments different thematic areas
  - Research-based knowledge in the programme areas
  - Multiple R&D environments established with increased integration between society and the economy
  - 5 new services/products

- **New entrants in academia and the business community**
  - Increased innovation capacity in the sector

- **Digital transformation**
  - Integration of digitalisation and industrialisation tested by business sector and authorities in construction projects
  - Business models based on digitalisation & industrialisation in a life-cycle perspective
  - Changed work approaches, processes & organisation
  - Learning organisations
  - New organisational forms for construction projects, stakeholders and skills
  - Known economic, technical and skills risks of changing structures
  - Methods for assessing risks

**Short-term effects 2024**

- **Improved information flow**
  - Unified structures for BIM and GIS

- **Increased open-access data for construction, use and maintenance**
  - Industry practices and legislation support digital data sharing

- **Clarity around liability, ownership and use rights for digital information**
  - Improved ability to use AI

- **Streamlining**
  - Increased productivity in the sector
  - More efficient use of energy and materials
  - Shorter processing times at the authorities

- **More efficient decision-making processes at the authorities**
  - Reduction of climate impact throughout the life cycle
  - Climate impact (CO2) is declared in digital environmental product declarations (EPDs) to enable analysis and decision support at different stages of the construction process

- **Knowledge-building and renewal**
  - New services or products available on the market
  - R&D environments established for increased interaction among the sector’s actors, higher education institutions and research institutes
  - Increased innovation capacity in the sector

- **Digital transformation**
  - Construction projects carried out in industrial processes supported by digitalisation
  - Business models at the actors are based on life-cycle benefits
  - Changed organisation of work, processes and skills
  - Learning organisations

**Long-term effects 2030**

- **Renewed business logic**
  - 33% shorter time
  - 33% reduction in costs
  - 40% reduction in climate impact