

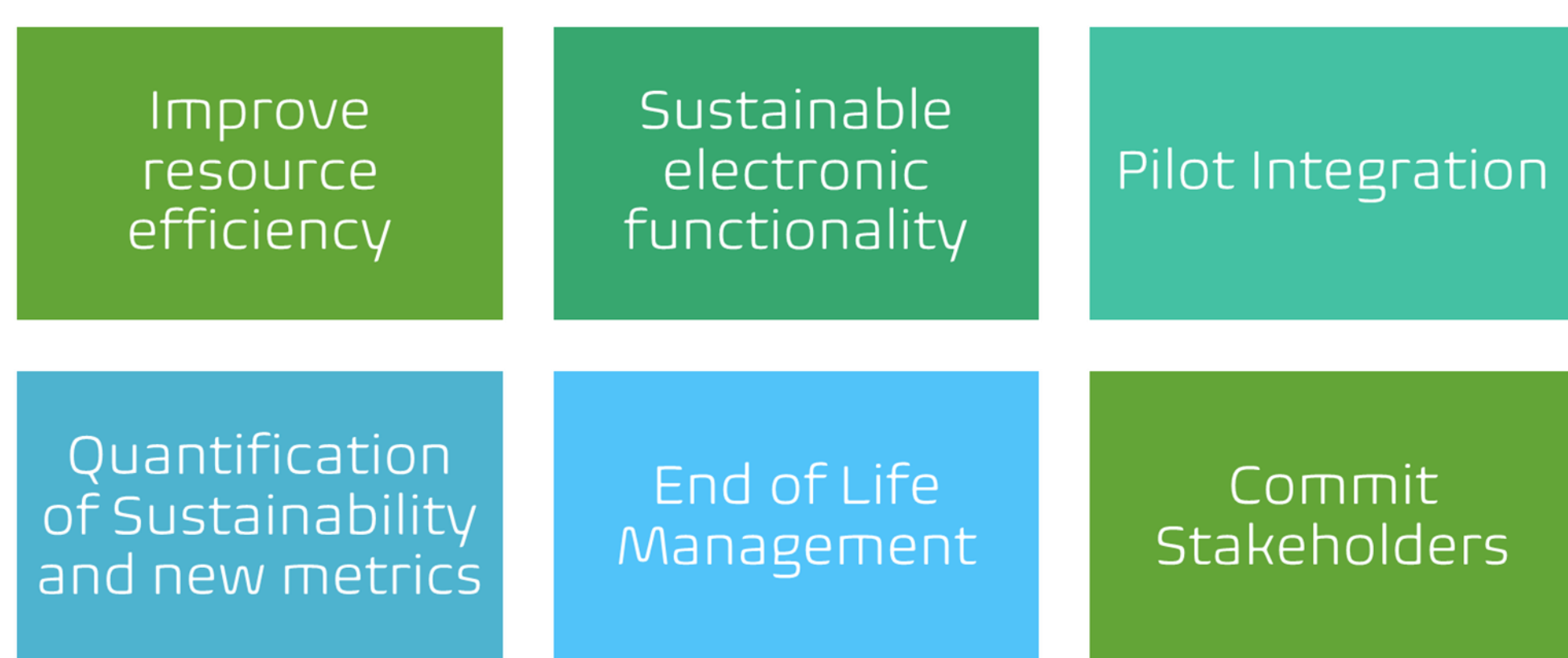
Sustronics

Sustainable and green electronics for circular economy

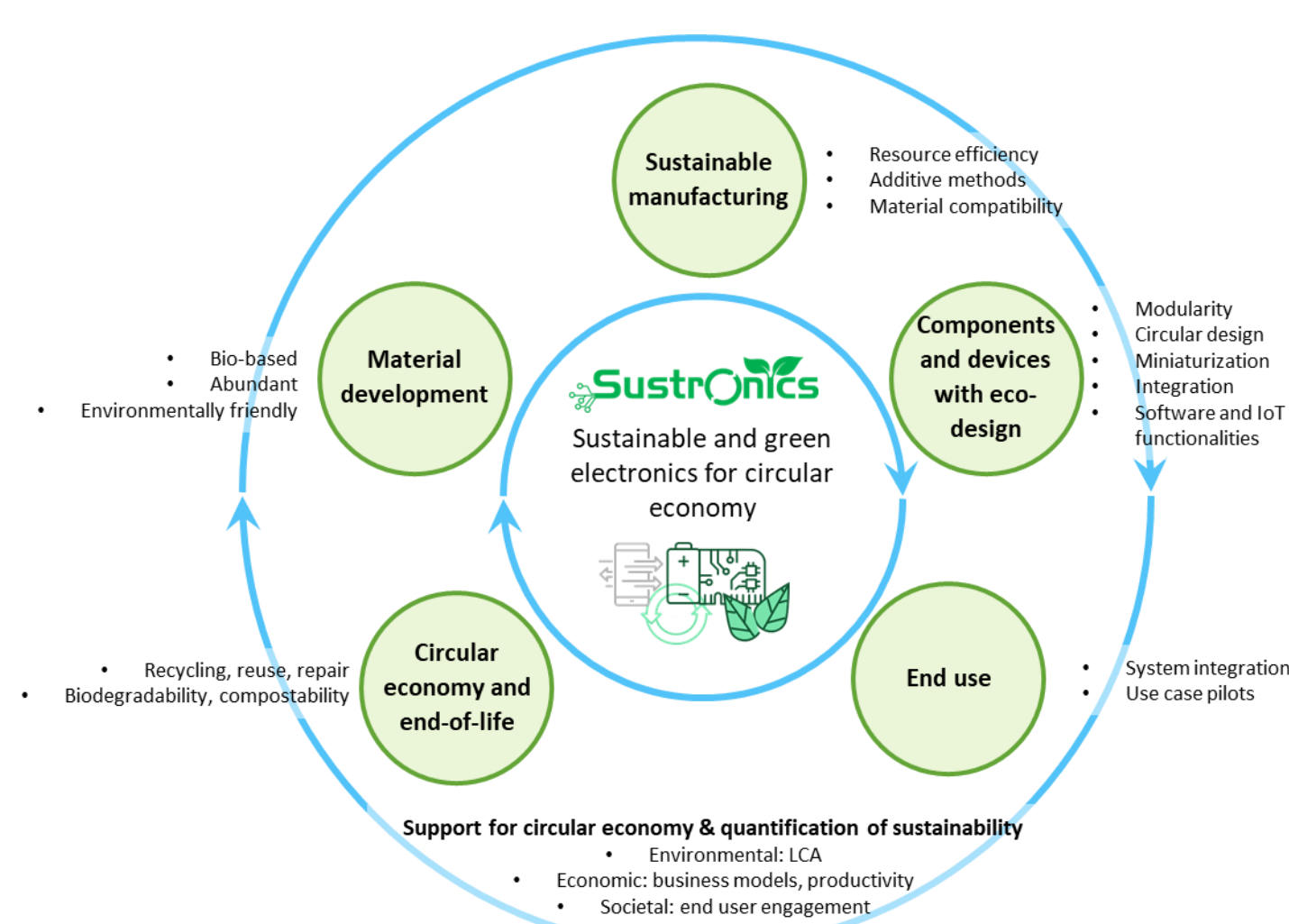
Challenges and objectives

Our ambition is to become 'the' European flagship project for sustainable electronics by building an ecosystem to demonstrate how the electronics industry can benefit from sustainable materials and manufacturing, eco-design, energy efficient products, and circular business models, and thus brings the whole sector closer to meeting Green Deal objectives while at the same time improving its competitiveness and strategic autonomy.

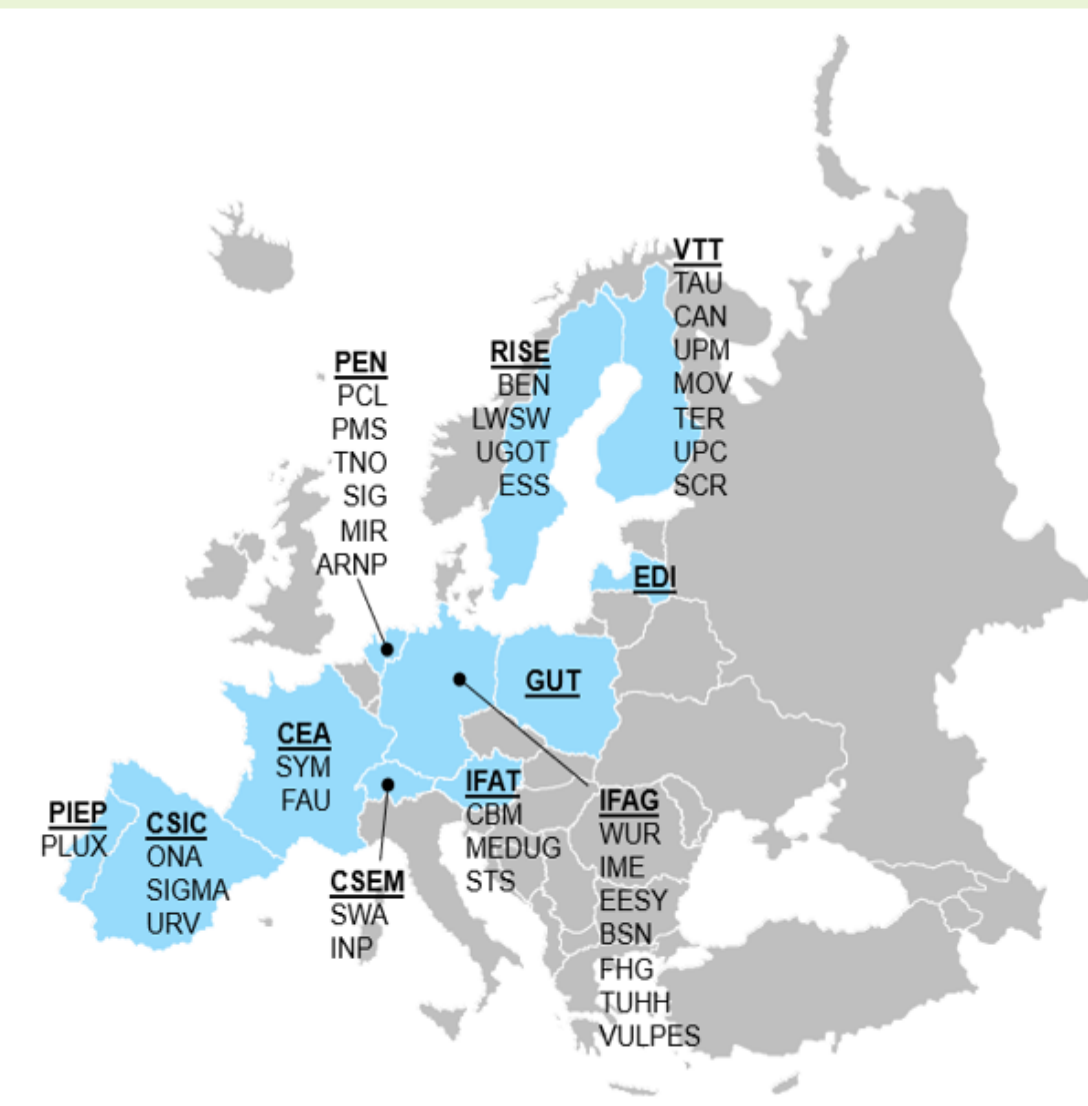
Objectives



Challenges

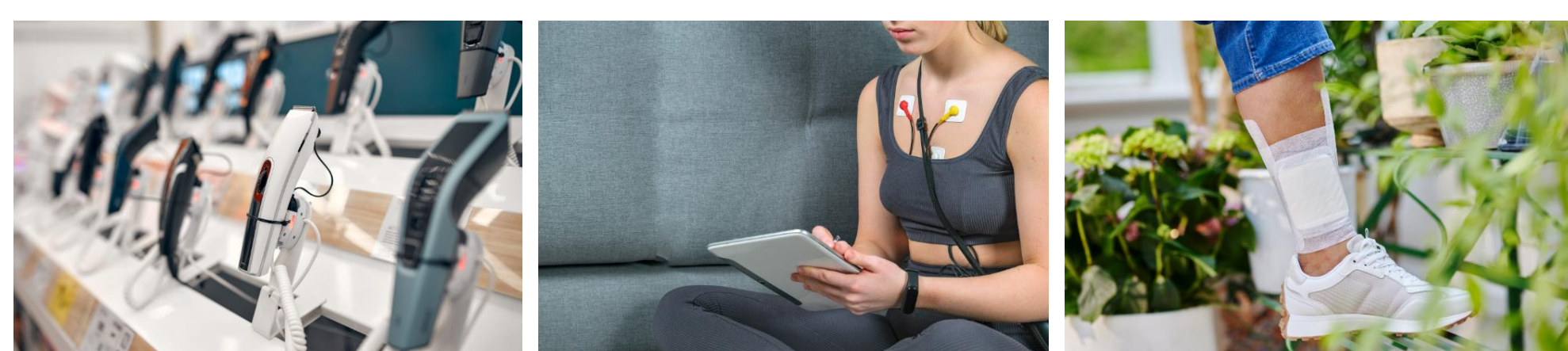


- Combination of large enterprises, SMEs, research organizations and universities throughout the electronics value chain & life cycle
- 46 partners
- 11 countries
- Total effort ~2951 Person-Months
- 3 Years



Technical goals

3 use cases, 10 pilots, led by industry



Circular electronic devices

Sustainable manufacturing for electronics

Environmentally compatible single-use electronics

Expected impact

Sustronics will impact the electronics industry with the following exploitable results:

- Sustainable materials tailored for electronics providing substitutes for fossil-based materials
- Sustainable manufacturing processes and production workflows compatible with sustainable materials
- Components and devices with optimized environmental footprint
- Designs for circular economy and environment
- Software functionalities for communication, data management and data security
- New product platforms with sustainability and energy efficiency as competitive edge
- Pilot validation data
- Lifecycle management tools
- LCA data on environmental impact of electronics
- Novel end-of-life methodologies tailored for sustainable electronics
- Digital product passport
- Business models for electronics and circular economy

Status at Month 18

- First prototypes of pilots integrated and their environmental impact calculated
- Development of circular business models on-going to support commercialisation
- New sustainable materials, processes, components and devices available

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