

ECS SRIA 2021 and Key Messages from the Previous Workshop

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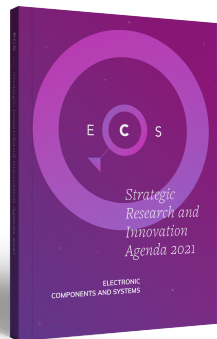
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IoT in the ECSEL/KDT SRIA 2021

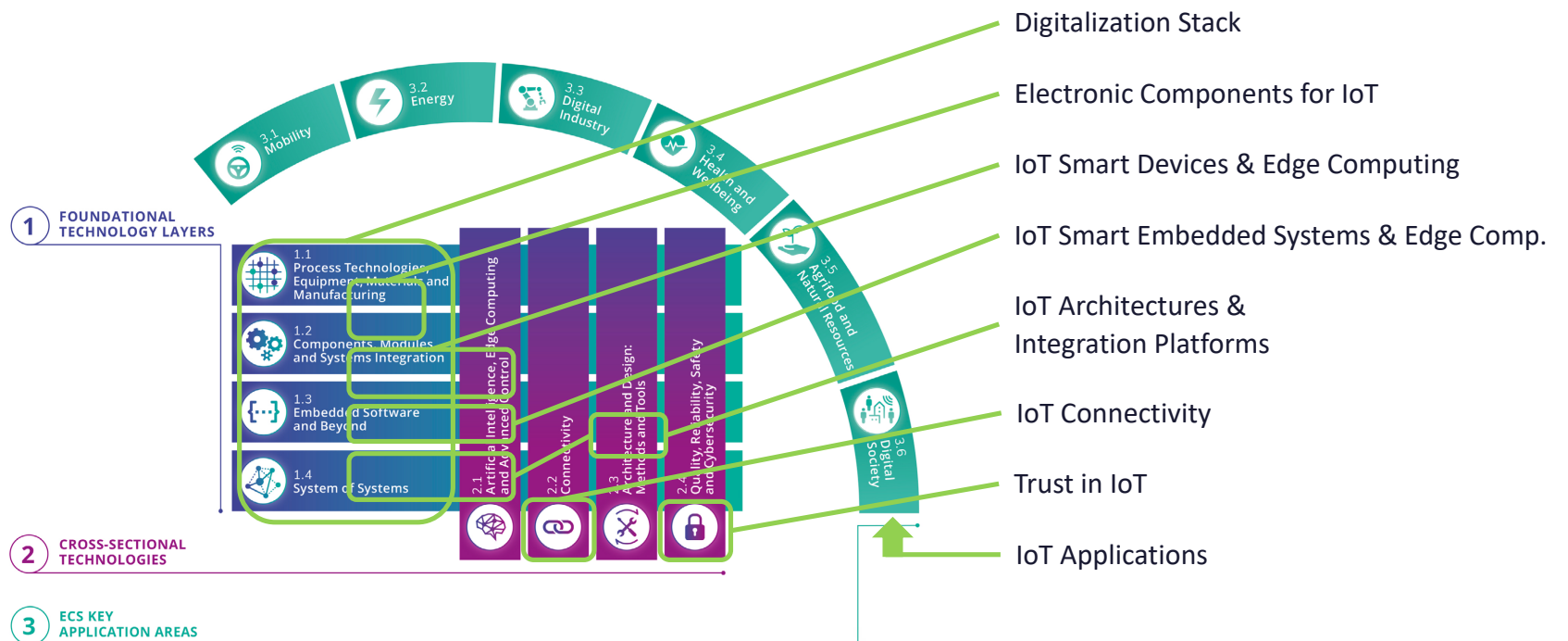
IoT covers a large part of the Electronic Components and Systems (ECS) value chain.

IoT solutions play a central role for many vertical applications.

The SRIA 2021 identifies the major challenges in IOT/edge computing and the necessary R&D&I efforts to tackle them.



<https://artemis-ia.eu/publication/download/ecs-sria-2021-final.pdf>



Key messages from the previous workshop



“**Everything**” digital is accelerating: IoT is no more in a hype, it is consolidating. Key enablers are:

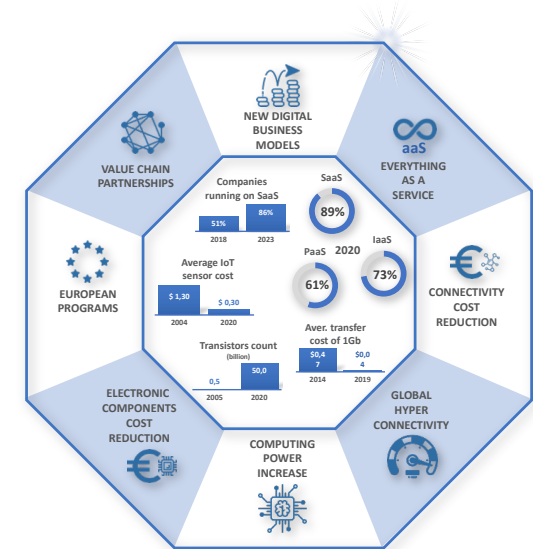
Investments in research and innovation are crucial and have been growing constantly in the last ten years (cf. >2B€ in Artemis/ECSEL projects 2009-2020).

Crises (e.g. covid) represent an opportunity for IoT because of its role in monitoring, containing, treating, preventing and controlling them...but long-lasting solutions must be identified.

IoT evolution is driven by different and interacting factors: edge computing, edge AI, hyper-connectivity, “trust”-related aspects, sustainability, lifecycle support.

Embracing the digital transformation is a strategic decision, it means a change of perspective involving operational and organizational processes, new agile business models, re-positioning in the value chain, new professional figures, a shift towards flexibility, etc.

This transformation must be **sustainable**: the picture of the **Internet of Trash** could be dramatic, in terms global power consumption, natural resources consumption, e-waste, limited recycling, ...



Key messages from the previous workshop (2)



The transformation must also be **selective**: last decade was about big data, while the future will be about **relevant data**. Edge computing and edge AI are the enablers for this trend, that represents a **unique opportunity for EU**.

Interoperability and AI are crucial to increase the **automation level** of the digital transformation.

We must also **trust** the digital transformation and what it brings with it, with specific research/innovation in e2e security, privacy, reliability, etc.

The transformation is not possible without a proper **engineering support, education and professional training**...for the entire lifecycle of IoT solutions.

Identify and focus on **strategic applications and value-chains** for EU.

Define a **pan European strategy** to bundle forces and develop a solid European IoT ecosystem, to support innovation and market development.

Thanks for the attention

