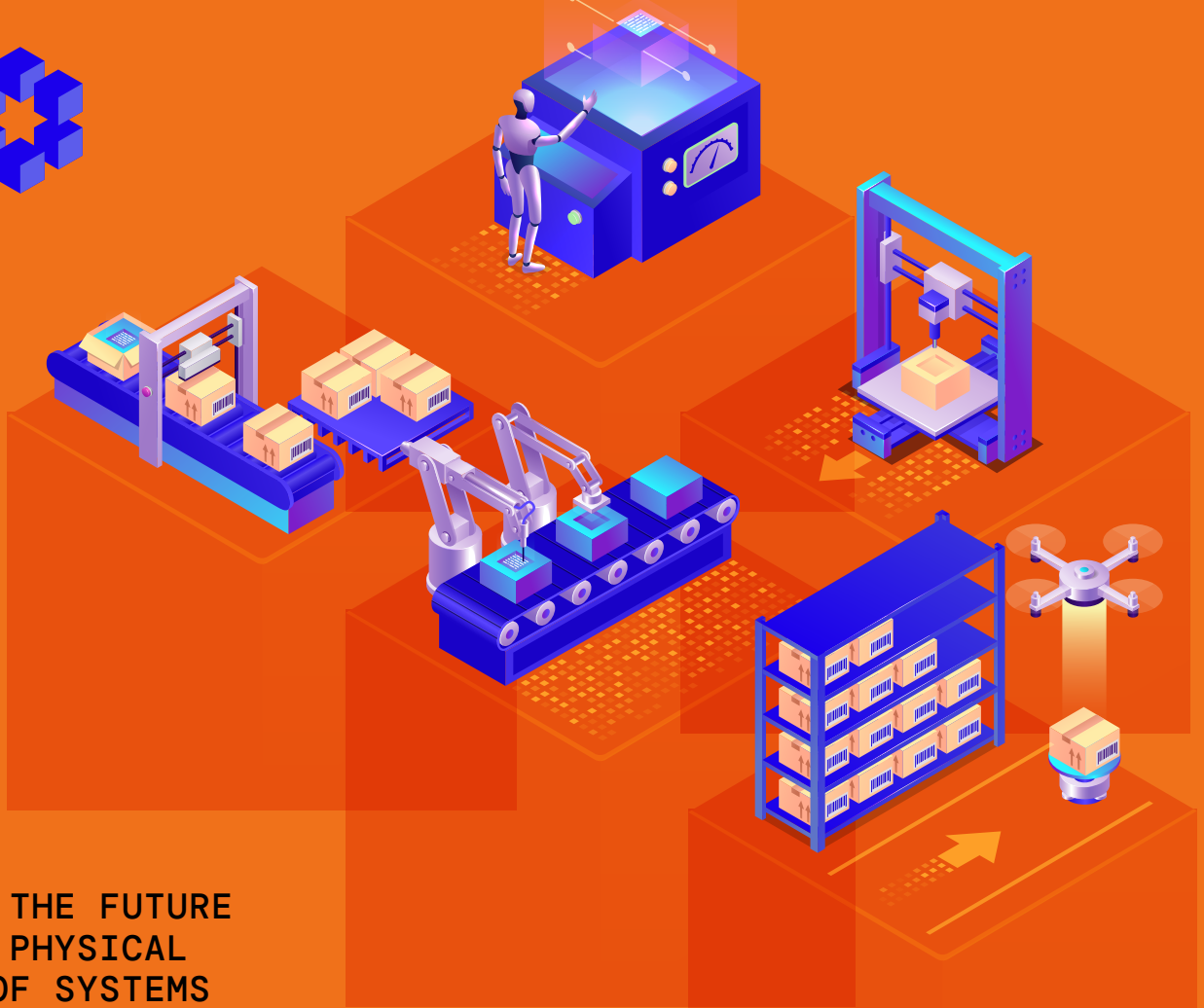


**NEXT
GEN
CPSoSs**



**BUILDING THE FUTURE
OF CYBER PHYSICAL
SYSTEMS OF SYSTEMS**

According to analysts the Cyber Physical Systems market is expected to face a consistent growth in the next few years, exceeding €130 billion in value by 2028. CPSs are key to reach SDGs, due to their applicability in different fields.

THE CLUSTER

NEXTGENCPSOSS is developing innovative solutions to create the next generation of Cyber Physical Systems of Systems in terms of applications, reliability, fault tolerance, decentralisation and security. The cluster operates at different levels, ranging from the technical development to the creation of interdisciplinary networks.



The main solutions developed by the Cluster are:



CPSoS aware components:
Cross-layer cognitive
optimisation tools & methods



Software Update
Framework without
Loss of Service



HiPEAC Vision setting
out trends in computing
systems and how these
affect society as a whole



Microservice
Architecture for
DevOps of CPSoS



TEACHING platform enabling
CPSs applications to close
the human-feedback loop



Case studies:
Smart Aquaculture,
B2B Smart
Building, Safety
and Wellbeing of
Workers, Smart
Planter Box,
Optimised
Manufacturing



Marketplace as a Service
for CPSoS solutions to
reduce the development
effort, e.g., to move from
an idea to a prototype

JOIN US ON OUR MISSION
TO UNLOCK THE NEXT
GENERATION OF CYBER PHYSICAL
SYSTEMS OF SYSTEMS



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