

to the first online

**Dissemination Workshop** on **June 13, 2024**, 13.00-17.00

of the Chips JU project

# LoLiPoP-IoT

## Long Life Power Platforms - Internet of Things

**Are you an academic or industrial professional interested in low-power remote sensing and tracking for applications, ranging from assets, conditions and systems to humans? Then, this workshop will provide insights into our research network, plans and initial results on these topics.**

LoLiPoP IoT addresses a combination of seven UN Sustainable Development Goals by developing new technologies and investigating their application in ten different use cases. The LoLiPoP IoT consortium of about 40 partners aims at developing multi-source energy harvesting and power management solutions to convert light, vibrations, magnetic & heat and minimize power drain for wireless IoT edge devices that enable long battery life sensors to be retrofitted on, in or near equipment and/or infrastructure.

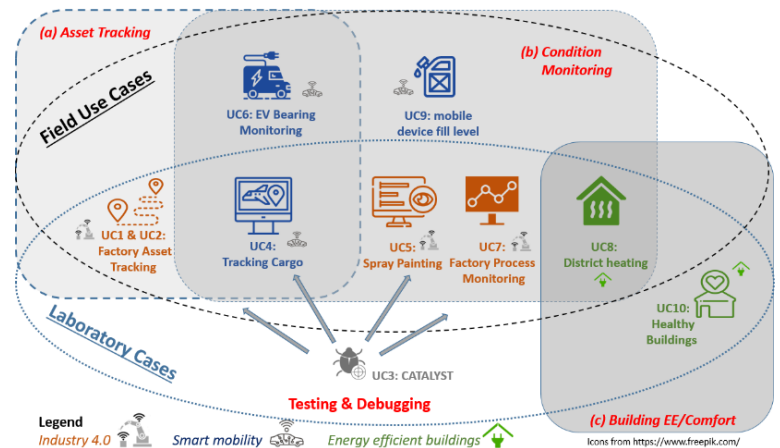
The LoLiPoP IoT project has three main objectives:

- Develop energy harvesting and micro-power management solutions for wireless IoT devices to undertake condition monitoring for predictive maintenance for industry 4.0 applications.
- Potential for retrofitting sensors for anomaly detection, efficiency and performance monitoring.
- Significant factory savings by applying predictive maintenance algorithms based on data.

The LoLiPoP IoT developments will be investigated and applied in several use cases. To name a few of them: predictive maintenance, smart mobility, comfort optimization in working environments, energy efficient buildings, orthopedical surgery, ...

The workshop will introduce the project's goals and the approach to use ten use cases from three different applications (Industry 4.0, Smart Mobility and Energy efficient (EE) buildings) using three different functionalities (Asset Tracking, Condition Monitoring and Building EE/Comfort) to benefit from long life power platforms.

Please see the agenda of the workshop on the next side.



# Dissemination Workshop Agenda

on June 13, 2024

Time	Duration	Topic	Partner
13:00	0:15	Overview	Cognitechna / Tyndall
13:15	0:15	Introduction to functionality "Asset tracking"	Boston Scientific, DePuy Synthes, swiss airtrainer
13:30	0:15	Introduction to functionality "Condition monitoring"	Arcelik, TST Sytemas, SYSGO
13:45	0:15	Introduction to functionality "Energy efficiency & comfort optimization"	Centria, IMEC, SYSGO
14:00	0:15	Medical factory asset tracking (Deep dive in Use Case 1)	Boston Scientific
14:15	0:15	Asset tracking for Orthopaedic Surgical Loaner Sets (Deep dive in Use Case 2)	DePuy Synthes
14:30	0:10	ADI Catalyst - Laboratory based Use Cases	ADI - Analog Devices International
14:40	0:15	Aviation asset tracking system (Deep dive in Use Case 4)	swiss airtrainer S.A.
14:55	0:20	<b>Break</b>	
15:15	0:15	Condition monitoring of spray painting (Deep dive in Use Case 5)	Arcelik A.S.
15:30	0:15	EV condition monitoring using smart bearings (Use Case 6)	TST Systemas
15:45	0:30	Factory Process Monitoring and Smart Mobile Device Fill Level (Deep dive in Use Cases 7&9)	SYSGO GmbH
16:15	0:15	District heating Network (Deep dive in Use Case 8)	MeshWorks Wireless Oy
16:30	0:15	Multi-sensor platform for healthy building management (Deep dive in Use Case 10)	IMEC NL
16:45	0:15	Wrap up	
17:00		<b>End of workshop</b>	

If you like to join the workshop, please register here:  
<https://www.lolipop-iot.eu/registration-dissemination-workshop>