CSA-Industry4.E

Grant agreement No 830845 – ECSEL-2018-3-CSA-Industry4E

Coordination & Support action for Lighthouse Initiative Industry4.E

Deliverable 5.3 Evaluate and decided on proposed KPIs

Lead parties for Deliverable: IMR

Deliverable due date: 31st March 2021

Actual submission date: 20th April 2021

Dissemination level: Public

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Table of Acronyms:

AI	Artificial Intelligence	IPR	Intellectual Property Rights
AquaTT	AquaTT UETP Ltd	ISO	International Organization for Standardization
BDVA	Big Data Value Association	I4MS	ICT Innovations for Manufacturing SMEs
CF2	ConnectedFactories2	JU	Joint Undertaking
CSA	Coordination and Support Action	KDT	Key Digital Technologies
D	Deliverable	KPI	Key Performance Indicator
DEI	Digitising European Industry	LIASE	Lighthouse Initiative Advisory Service
DEP	Digital Europe Programme	MASP	Multi-Annual Strategic Plan
DIH	Digital Innovation Hub	MGEP	Mondragon Goi Eskola Politeknikoa
DoA	Description of Action	M	Month
DT	Digital Transformation	MCs	Major Challenges
EC	European Commission	MS	Milestone
EDIH	European Digital Innovation Hub	Obj	Objective
EU	European Union	PM	Person Month
FoF	Factories of the Future	PO	Project Officer
FP	Framework Programme	PC	Project Coordinator
GDPR	General Data Protection Rights	PPP	Public Private Partnership
GA	General Assembly	R&I	Research and Innovation
GB	Governing Board	SME	Small- and Medium-Sized Enterprise
HE	Horizon Europe	SoA	State-of-the-Art
H2020	Horizon 2020	S2i	Steinbeis 2i GMBH
IMR	Irish Manufacturing Research Ltd	VTT	Teknologian tutkimuskeskus VTT Oy
I4.E	Industry4.E	WP	Work Packages
ECSEL	Electronic Components and Systems for European Leadership		
ECS-SRIA	Electronic Components and Systems Strategic Research and Innovation Agenda		
EFFRA	European Factories of the Future Research Association		

Table 1: Project acronyms

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History of Changes:

Version	Publication date	Change
V1	15.09.2020	Draft document IMR
V2	25.03.2021	Additional info added to all sections from IMR
V3	20.04.2021	Final harmonisation and peer review IMR

Table 2: History of changes to the report

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Contextual information

This deliverable *D5.3 Evaluate and decided on proposed KPIs* prepared at M30 by IMR aims to summarise the evaluation and confirmed Key Performance Indicators (KPIs) for the I4.E Lighthouse Initiative brought about through the thorough secretariat support provided by the CSA to the I4.E LIASE, one of the four main pillars of the project (as illustrated in Figure 1).

The effort is interconnected to the wider activities of the project, for example WP1 has worked with the LIASE to identify gaps and new opportunities for possible topics to be included in future ECSEL MASP and ESC SRIA. More specifically WP5 and *Task 5.3. Secretariat services to LIASE in their engagement with the ECSEL JU governing board (M1-30) Lead: IMR Contributors: AquaTT (M10-M13)* has facilitated this process through the provision of secretariate support to the LIASE and their interactions with the community, throughout the project, from M1 (Oct 2018) to M30 (March 2021).

Figure 1: Pillar 1 - project activities of the CSA-Industry4.E

Related milestones have been achieved in the process, described as follows:

- **MS1:** Working relationship with the LIASE has been established. Note: IMR (via WP5) facilitated the first meeting completed the minutes with action items (at M1); and
- **MS4:** KPIs for the Lighthouse established. Not: IMR (via WP5) used the KPIs for reporting from the LIASE to the ECSEL-JU GB (the presentation of the Industry4.E lighthouse at the GB meeting at M27 was deferred due the prior agenda items being delayed, the presentation was available and has subsequently been used see *D5.2 Report about secretariat support provided to the LIASE (M30). Lead: IMR* and *D5.4 Result and analysis of KPIs (M30) Lead: IMR*.

The result of this effort from the LIASE, supported by the secretariate services from IMR, has been the definition of appropriate KPIs to measure the success of the I4.E lighthouse Initiative which have supported the LIASE in their efforts to support the community and in their reports to the ECSEL-JU GB, using the defined KPIs defined with the overall aim of delivering an efficient and targeted service that contributes to the digitalisation of the European Industry.

1. Evaluation and decision-making process

Facilitated dialogue:

The evaluation and decision-making process for the KPIs included the organisation of meetings and facilitated dialogue.

- The PC facilitated the monthly meeting of the LIASE from M13-M24, and once a quarter from M25-M30 during RP2 to ensure a consistent regular virtual meeting of the LIASE. These meetings greatly assisted the LIASE in their message alignment and coordination of resources to support their service delivery to the community. IMR was responsible for facilitating the meetings and taking the meeting minutes. A chairperson was appointed by the group and the LIASE was extended to bring in additional insight and capacity to further enhance the groups effort. Overall meetings were efficient, and the monthly meeting frequency was appropriate.
- Additionally, from M13-M24 a monthly meeting of the LIASE and CSA was introduced and a weekly appointment between the PC and PO was maintained (see *D5. Compile Minutes of the project meetings* for details) with the same agenda structure to ensure overlap and efficient and effective information flow.

Consensus and parallel activity:

At M16 the evaluation process in relation to the KPIs was complete after considerable effort from the KPI working group established under WP5. This effort culminated in the following final actions:

- the working group presented prepared draft KPIs and present them internally to the CSA, followed by a presentation to the LIASE, this open discussion was facilitated by WP5 and feedback was captured;
- the LIASE carried out a robust analysis, in consultation with MGEP due to parallel related activities in *WP1 - Enabling the execution of the Industrial digitalisation roadmap* before presenting the finalisation of the effort to the CSA; and
- the KPIs were finalised by agreement over email exchange before M17.

END OF SECTION 1

2. KPIs of the Industry4.E Lighthouse Initiative

Eight indicators of performance:

The evaluation and decision-making process resulted in the following KPIs:

1. Nº of contributions to the ECS-SRIA roadmap;
2. Nº of projects participating in I4.E / CSA & LIASE;
3. Nº of entities involved in I4.E / CSA & LIASE);
4. Nº of events with presence of I4.E | CSA & LIASE;
5. Nº of events organised by I4.E | CSA & LIASE;
6. Nº of concepts mapped in the ECSEL portal;
7. Nº of access to social media of I4.E | CSA & LIASE; and
8. No of projects active in the ECSEL portal

Capturing impact:

The compact set of KPIs can be described as Specific, Measurable, Attainable, Relevant, Time-bound, Evaluate and Re-evaluate (SMARTER). The KPIs encompass the main aspects of the initiative, its added-value contributions, ability to galvanise the community, and facilitate outreach as well as knowledge management. The KPIs can be mapped to the I4.E lighthouse initiative objectives as follows:

#	I4.E Objective	I4.E KPI
O1	Support impact through promoting cooperation and collaboration of I4.E twin transition initiatives	2. Nº of projects participating in I4.E / CSA & LIASE. 3. Nº of entities involved in I4.E / CSA & LIASE.
O2	Foster continuous dialogue	5. Nº of events organised by I4.E.
O3	Provide domain-specific guidance towards twin transition	1 Nº of contributions to the ECS-SRIA roadmap. 6 Nº of concepts mapped in the new ECSEL portal.
O4	Serve as communication & innovation platform	6: Nº of access to social media of I4.E	LIASE & CSA.
O5	Advisory services to guide the way.	4. No of events with presence of I4.E	LIASE & CSA.
O6	Share best practice - share results for accelerated impact	8. No of projects active in the ECSEL portal.

Table 3: Industry4.E objectives and indicators

END OF SECTION 2