École des Ponts
business school

REX

RISE CE-IoT

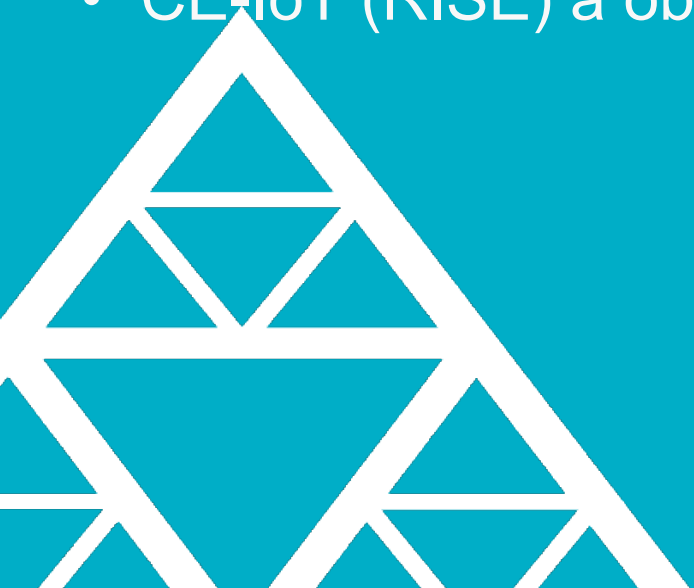Alon Rozen, Dean & Prof. of Innovation - 14 octobre 2019
Journée d'information
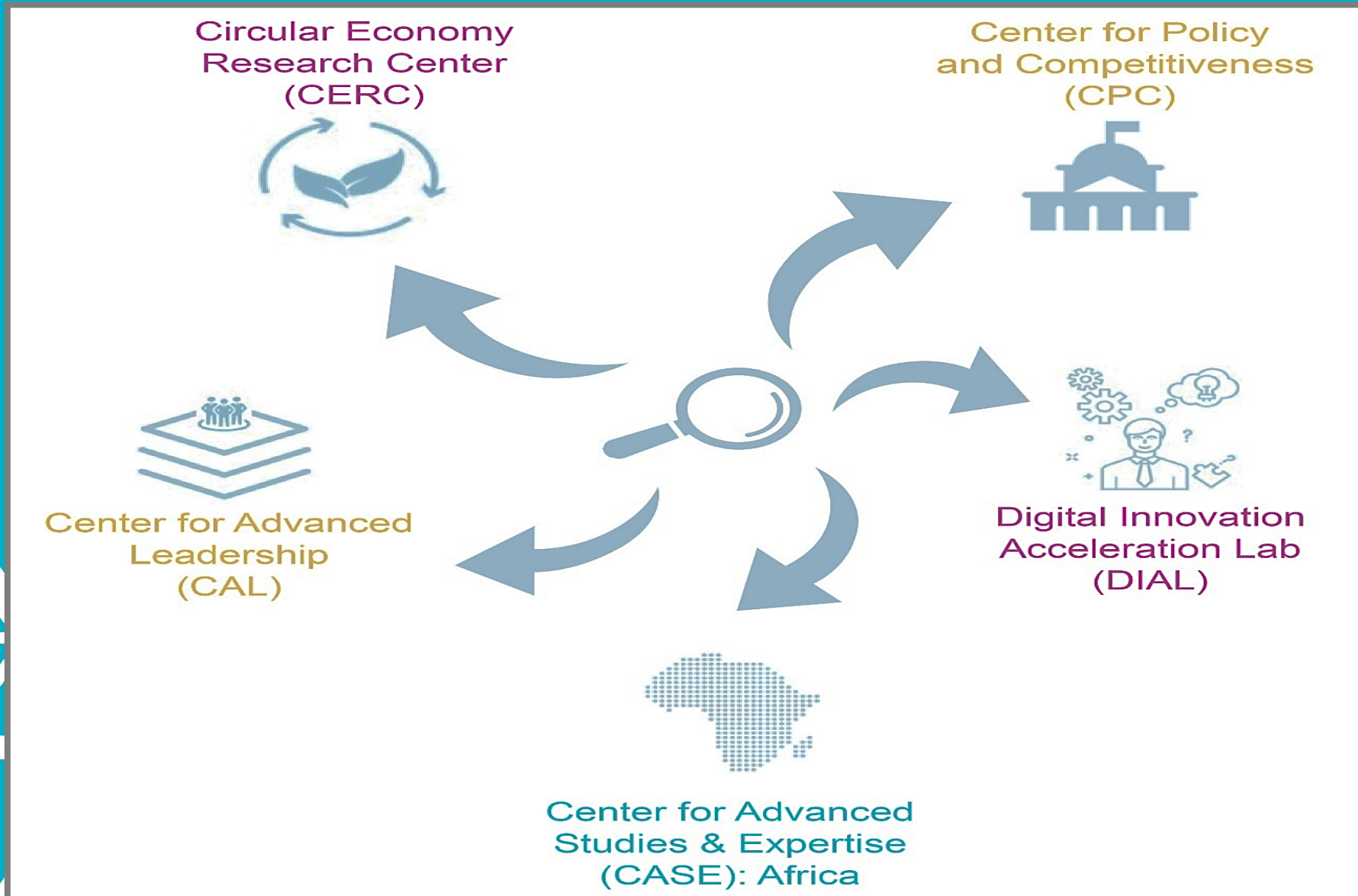Les Actions Marie Skłodowska-Curie «Innovative Training Networks»/ ITN et «Research and Innovation Staff Exchange» /RISE

1. L'histoire en bref...

- Ecole des Ponts Business School fondée en 1987
- Programmes MBA essentiellement jusqu'en 2014
- Lancement d'un Executive Doctorate in Business Administration en 2015
- Lancement d'un Circular Economy Research Center en 2016
- Center for Policy and Competitiveness en 2017, Center for Advanced Leadership en 2017, et CASE Africa en 2018
- En 2017 et 2018 participation dans 7 consortia de recherche RISE et RIA
- Financement de 5 projets européens obtenus (4 RISE, 1 RIA)
- CE-IoT (RISE) a obtenu un score de 93/100
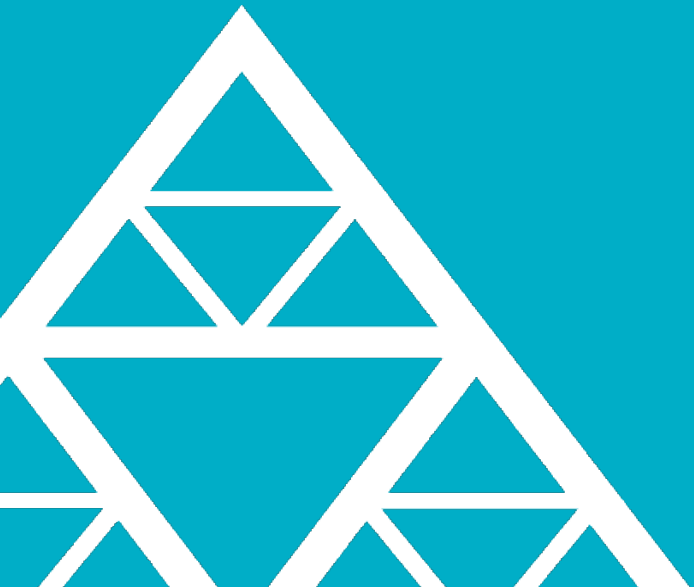
3. Research Initiatives

RETOUR D'EXPÉRIENCE

- COMMENT ON A FAIT
- QUE RETENIR ?

2. Comment on a fait ?

- Création d'un consortium moitié académique moitié industrielle avec une forte diversité européenne (FR, UK, BE, PL, CY, GR)
- Préparation de la proposition en équipe – scientifiques, chercheurs, partenaires industriels, autres écoles
- Mélange savant de langage scientifique « naturel » et vulgarisation
- Lettres de soutien d'élus, de chefs d'entreprise et d'associations montrant l'intérêt privé et l'intérêt public du projet.

LE PROJET

Proposal Evaluation Form

EUROPEAN COMMISSION Horizon 2020 - Research and Innovation Framework Programme	Evaluation Summary Report

Call: H2020-MSCA-RISE-2017
Funding scheme: MSCA-RISE
Proposal number: 777855
Proposal acronym: CE-IOT
Duration (months): 48
Proposal title: A Framework for Pairing Circular Economy and IoT: IoT as an enabler of the Circular Economy circularity-by-design as an enabler for IoT (CE-IoT)
Activity: ECO

N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	ECOLE NATIONALE DES PONTS ET CHAUSSEES	FR	342,000	20.21%	342,000	20.21%
2	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	UK	270,000	15.96%	270,000	15.96%
3	FOUNDATION FOR RESEARCH AND TECHNOLOGY HELLAS	EL	324,000	19.15%	324,000	19.15%
4	CABLENET COMMUNICATION SYSTEMS LTD	CY	270,000	15.96%	270,000	15.96%
5	BlueSoft Sp. z o.o.	PL	270,000	15.96%	270,000	15.96%
6	Deloitte Bedrijfsrevisoren	BE	216,000	12.77%	216,000	12.77%
	Total:		1,692,000		1,692,000	

Abstract:
The overall aim of CE-IoT is to develop an innovative framework of interplay between Circular Economy and IoT, to explore novel ways in which this interaction can drastically change the nature of products, services, business models and ecosystems. The CE-IoT framework will be bi-dimensional and bi-directional in terms of circularity, aiming to develop (i) novel circular economy business models and service supply chains to unlock CE-IoT synergies in order to generate direct value for customers/end-users and augmenting resource productivity across economies by forming new ecosystems that eliminate both negative externalities and the need for considerable resources altogether, and (ii) open, circular-by-design IoT architecture, where "smart" IoT objects (e.g., sensors, devices, systems and components) are integrated in the IoT ecosystem through patterns with proven key circularity-enabling properties (scalable connectivity, end-to-end security/privacy, dependability and interoperability) to maximize IoT resource and data harvesting in a new breed of circular-by-design IoT ecosystems. To achieve its overall aim, CE-IoT will undertake research and innovation activities to (i) establish a comprehensive framework with IoT as a key enabling and facilitating technology of the circular economy from a business perspective based on circular economy design patterns, (ii) to develop an open modular, circular-by-design IoT architecture based on IoT architectural design patterns and (iii) to integrate an overarching pattern-driven CE-IoT framework covering both business and technical aspects. CE-IoT will carry out comprehensive evaluation of the CE-IoT framework covering business, technical and legal aspects through two demonstrators in the domains of telecommunication and cloud services and will create conditions for effectuating circular economy principles through seamless integration with IoT technology and to broaden the use of the CE-IoT framework.

Evaluation Summary Report

Evaluation Result

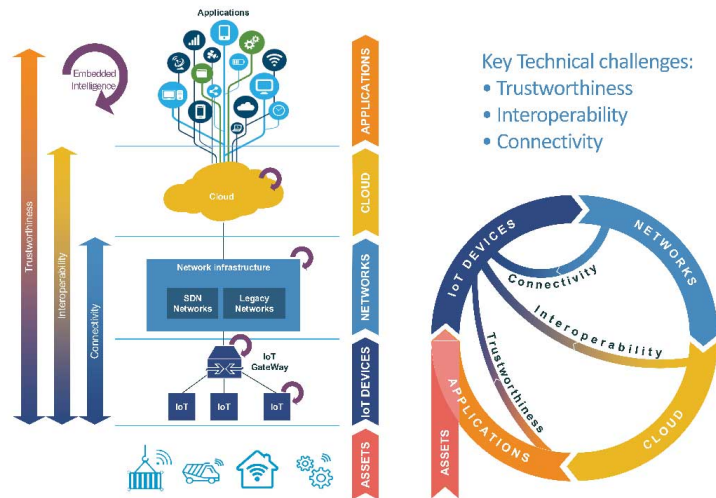Total score: 92.60% (Threshold: 70/100.00)

CE-IoT

https://www.ce-iot.eu/

A Framework for Pairing Circular Economy and IoT: IoT as an enabler of the Circular Economy & circularity-by-design as an enabler for IoT

AIM To develop an innovative framework of interplay between Circular Economy and IoT, to explore novel ways in which this interaction can drastically change the nature of products, services, business

The CE-IoT framework will be bi-dimensional and bi-directional in terms of circularity aiming to develop:
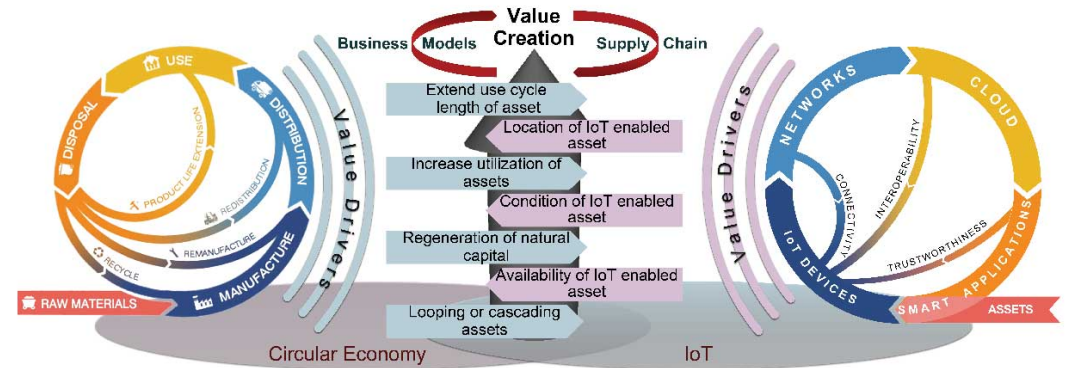
• Novel circular economy business models and service supply chains to unlock CE-IoT synergies
• An Open circular-by-design IoT architecture, where "smart" IoT objects are integrated in the IoT ecosystem through patterns with proven key circularity-enabling properties

Key Technical challenges:
• Trustworthiness
• Interoperability
• Connectivity

From Linera to Circular

CE-IoT vision blends the paradigm of Circular Economy and Internet of Things to explore novel ways in which this interaction can drastically change the nature of products, services, business models and ecosystems. This way Circular economy and IoT provide value drivers that merging to new vaule creation

École des Ponts business school

UNIVERSITY OF CAMBRIDGE Judge Business School

FORTH INSTITUTE OF COMPUTER SCIENCE

/// cablenet

BLUESOFT EFFICIENT SOLUTIONS

Deloitte.

2. Que retenir ?

- Diversité du consortium

- Choisir des partenaires expérimentés

- Finition de la proposition en équipe très réduite – trois personnes

- Vulgarisation par images et modèles à la fin de la rédaction avec quelqu'un sensibilisé business et anglophone

- Lettres de soutien – il faut être stratégique, viser haut, commencer tôt et rédiger les lettres pour eux (ou au moins fournir un exemple)

- Relire les guidelines (Proposal Writing: Part A and B) avant de soumettre

LETTRES DE SOUTIEN

Ellen MacArthur Foundation letter

ELLEN MACARTHUR FOUNDATION &
ELLEN MACARTHUR FOUNDATION TRADING LIMITED
THE SAIL LOFT, 42 MEDINA ROAD
COWES, ISLE OF WIGHT
PO31 7BX, UK

Jocelyn Blériot
Head of Editorial & Public Affairs
Ellen MacArthur Foundation

Cowes, 11 March 2017

RE: Letter of Support

To whom it may concern:

I am writing to express the Ellen MacArthur Foundation's support for the submission of the project proposal entitled:

*A Framework for Pairing **Circular Economy** and **IoT**: IoT as an enabler of Circular Economy & **circularity** by design as an enabler for IoT: CE-IoT*

under the call Marie Skłodowska-Curie (RISE). The proposal, which aims to bring together academia, research and industry to explore the potential that can be realised through the convergence of circular economy and the Internet of things (IoT), has our full support.

SES letter

SES
beyond frontiers

Karim Michel SABBAGH
President and CEO
Chairman of the Executive Committee

Ecole des Ponts Business School
Mr. Alon ROZEN
Dean, Prof. of Innovation and Management
Coordinator of RISE Circular Economy and IoT proposal
12 Boulevard Copernic
Cité Descartes
F-77420 Champs-Sur-Marne

3 April 2017

Subject: Support to Circular Economy and IoT consortium

To Whom It May Concern,

Having learnt with vivid interest about the EU RISE project proposal for "**A Framework for Pairing Circular Economy and IoT: IoT as an enabler of Circular Economy & circularity by design as an enabler for IoT: CE-IoT**, I am writing to express our support for the submission of the project proposal.

In light of SES's experience as a global leader for satellite communication services and solutions, we are of the view that the overall aim and objectives of the Circular Economy and IoT framework

GUIDELINES (À RELIRE)

#InvestEUresearch

Horizon 2020
Work Programme
for Research & Innovation
2018-2020

Horizon 2020 Proposal
Writing:
Part A and Part B

Name: Gorazd Weiss & Carmen Heidenwolf

International Cooperation Service Facility of the EC

Questions ???