Value Chain approach to address Societal Challenge "Secure, Clean and Efficient Energy"

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Background Societal Challenge
"Secure, clean and efficient energy"

1. **ETPs:** There are 42 ETPs. There are few sectorial and cross cutting ETPs. There are 8 ETPs related to energy in Europe.
2. **Associations:** There are more than 15 associations related to energy in Europe.

❑ **State of Art :**

- ➢ It is difficult for Industry to take part in all of these different groups (ETPs & Associations)
- ➢ Commission is overwhelmed with reports and recommendations which could have been streamlined between ETPs & Associations

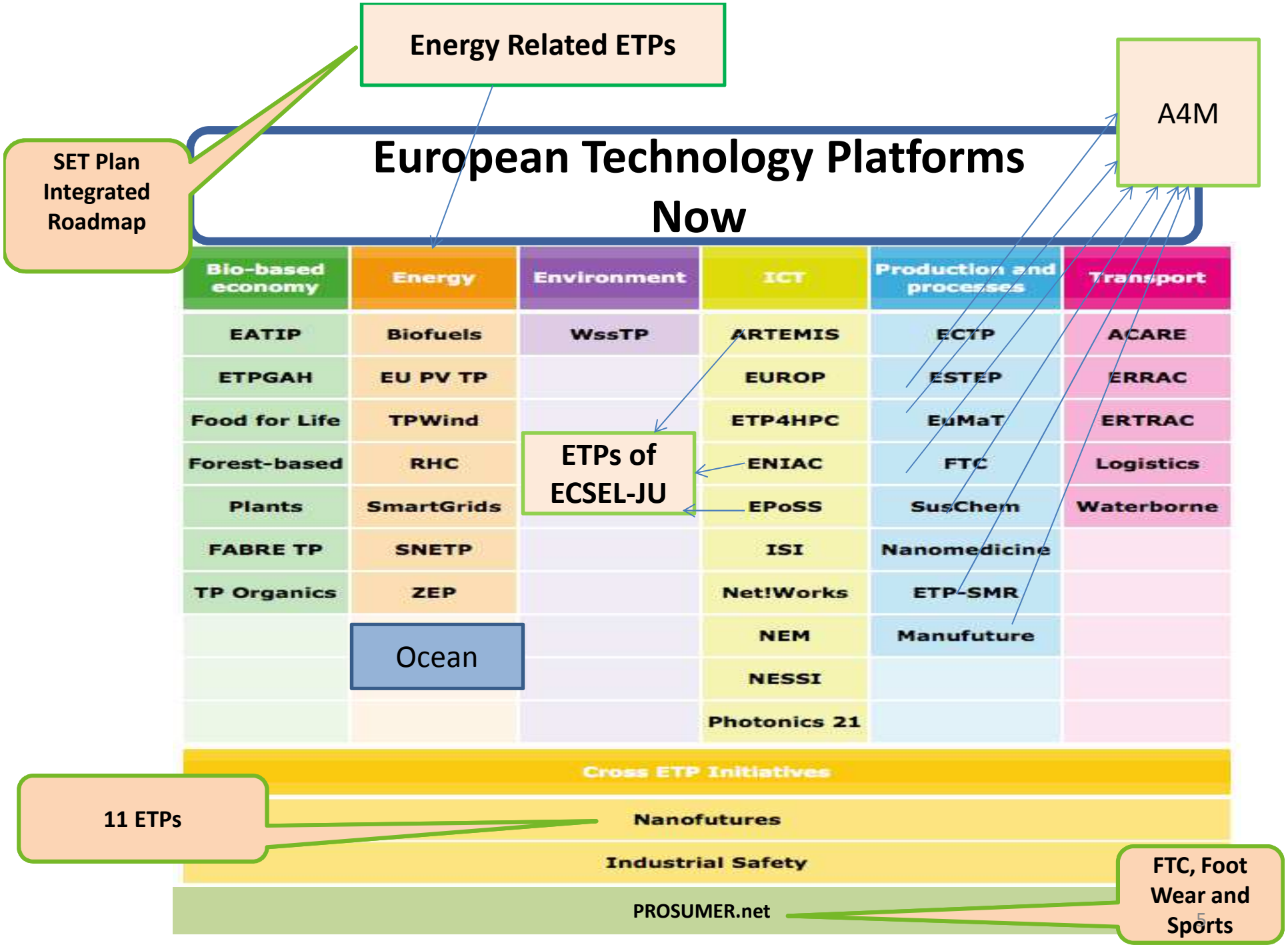
THREE PILLAR STRUCTURE

HORIZON 2020

Exellence Science	Industrial leadership	Societal Challenges
• European Research Council	• Leadership in enabling and industrial Technologies	• Health, demographic change and wellbeing
• Marie Curie Actions	• Access to risk finance	• Food security, sustainable agriculture, marine and maritime research and the bioeconomy
• Future and Emerging Technologies	• Innovation in SMEs	• Secure, clean and efficient energy
• Research Infrastructure (including e.infrastructure)		• Smart, green and integrated transport
		• Climate action, resource efficiency and raw materials
		• Inclusive, innovative and secure societies
• 24.441B.€	• 17.016 B.€	• 29.679 B.€

European Institute of Innovation and Technology (EIT)
Combining research, innovation and training in Knowledge and Innovation Communities 2.711B€

Joint Research Centre (JRC)
Providing a robust, evidence base for EU policies 1.103 B.€

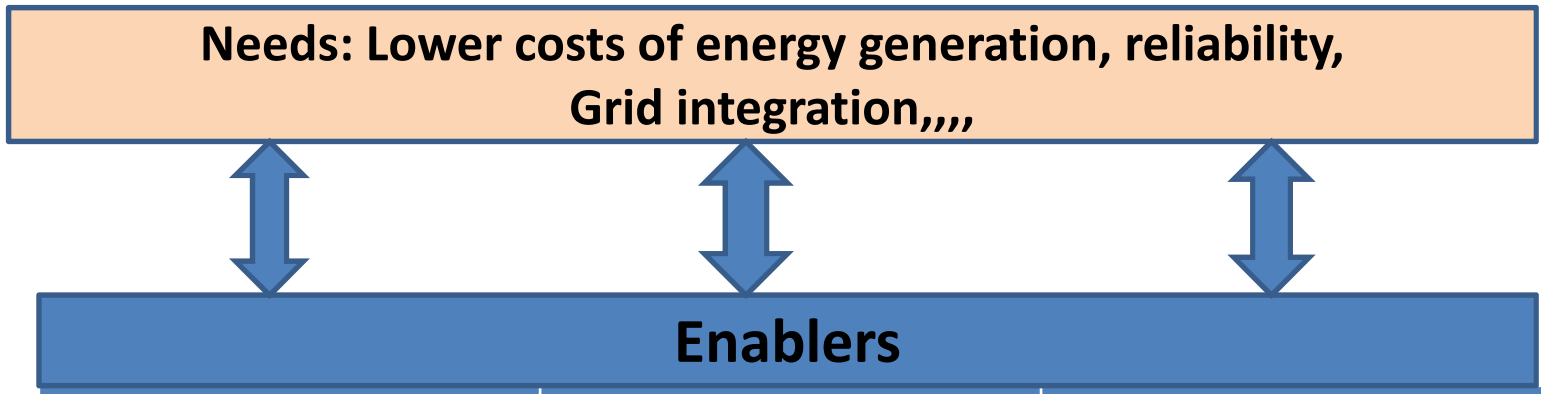

Energy Related ETPs
A4M
SET Plan Integrated Roadmap
European Technology Platforms Now
Bio-based economy
Energy
Environment
ICT
Production and processes
Transport
EATIP
Biofuels
WssTP
ARTEMIS
ECTP
ACARE
ETPGAH
EU PV TP
EUROP
ESTEP
ERRAC
Food for Life
TPWind
ETP4HPC
EuMaT
ERTRAC
Forest-based
RHC
ETPs of ECSEL-JU
ENIAC
FTC
Logistics
Plants
SmartGrids
EPoSS
SusChem
Waterborne
FABRE TP
SNETP
ISI
Nanomedicine
TP Organics
ZEP
Net!Works
ETP-SMR
NEM
Manufuture
Ocean
NESSI
Photonics 21
Cross ETP Initiatives
11 ETPs
Nanofutures
Industrial Safety
PROSUMER.net
FTC, Foot Wear and Sports

Associations Representing the PPP Private Side and Other European Associations

cPPPs	JTI PPPs	Energy Related Associations	EIT-KIC
EFFRA (FoF)	AENEAS, ARTEMIS & EPoSS (ECSEL)	EERA	Inno Energy
E2BA (EeB)	Aeronautics Industries (Clean Sky)	EII	ICT-Labs
SPIA (SPIRE)	Air Traffic (SESAR)	EMIRI	Climate
EGVIA (EGVI)	Rail Industries (Shift2Rail)	Wind energy	
Photonics 21 (Photonics)	Pharmaceutical Industries (IMI)	,,,,,,,,,,,,,,	
EuRobotics (Robotics)	Bio Based Industries BIC (BBI)		
ETP4HPC (HPC)	Fuel Cell and Hydrogen Industries (Fuel Cell and Hydrogen)		
5G Infrastructure (5G)			
Big Data Value(Big Data)			

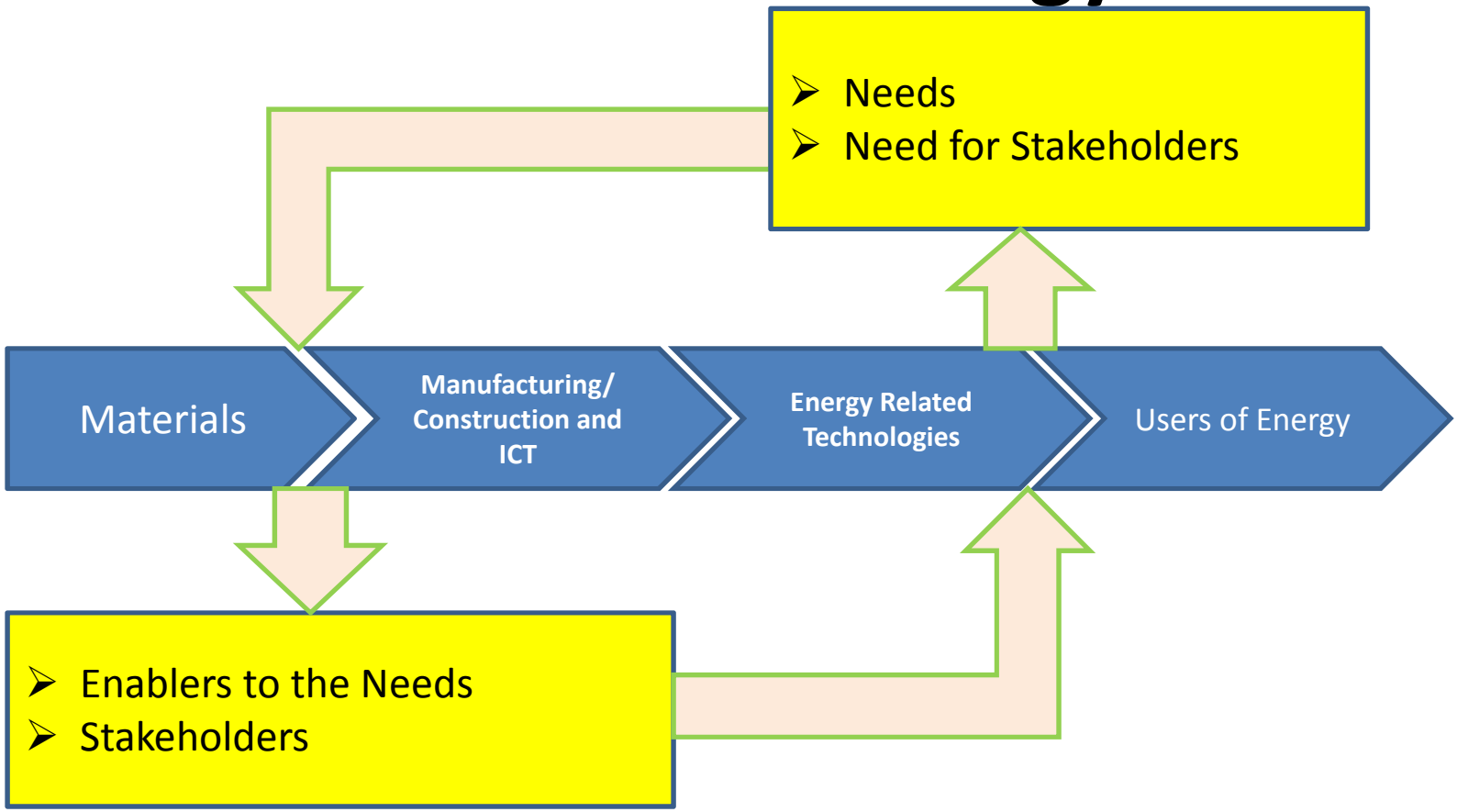
SET Plan
Integrated Roadmap

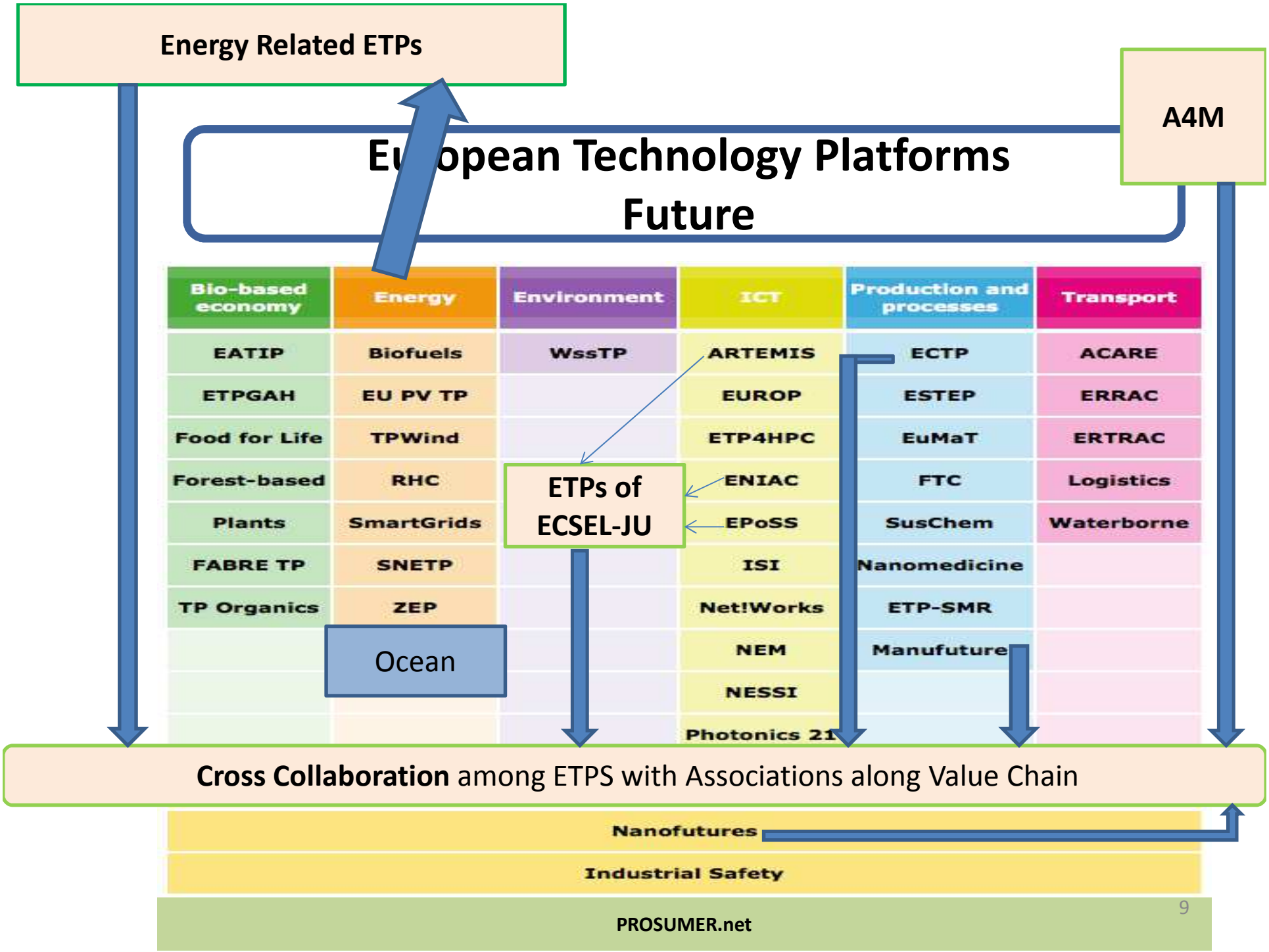
Needs and Enablers for “Secure, Clean and Efficient Energy”



Material	ICT	Manufacturing/ Construction
Advanced materials	Automation	Manufacturing/ Construction processes
Alternate materials	Online Control	Equipment
High Performance materials	Simulation and Modelling	Low Cost Manufacturing/ Construction
Resource Efficiency	Smart Systems	Energy Efficiency

Value Chain for “Secure, Clean and Efficient Energy”




Energy Related ETPs
A4M
European Technology Platforms
Future
Bio-based economy
Energy
Environment
ICT
Production and processes
Transport
EATIP
Biofuels
WssTP
ARTEMIS
ECTP
ACARE
ETPGAH
EU PV TP
EUROP
ESTEP
ERRAC
Food for Life
TPWind
ETP4HPC
EuMaT
ERTRAC
Forest-based
RHC
ENIAC
FTC
Logistics
Plants
SmartGrids
EPoSS
SusChem
Waterborne
FABRE TP
SNETP
ISI
Nanomedicine
TP Organics
ZEP
Net!Works
ETP-SMR
NEM
Manufuture
NESSI
Photonics 21
ETPs of ECSEL-JU
Ocean
Cross Collaboration among ETPS with Associations along Value Chain
Nanofutures
Industrial Safety
PROSUMER.net

Suggestions

- **Cross Collaboration among ETPs with associations along the value chain and to link the three priorities of Horizon 2020 by combining the users of energy & energy-related technologies with providers of materials, manufacturing/construction technologies and ICT under the following four areas:**

1. **Materials for Energy (A4M + EMIRI + NanoFutures +energy related ETPs,,)**
2. **Manufacturing Technologies for energy (ManuFuture + EFFRA + collaborating ETPs + energy related ETPs,,,)**
3. **Energy-efficiency in key material & manufacturing/Construction sectors (SusChem+ ECTP + ManuFuture + SPIRE+ E2BA + EFFRA + collaborating ETPs + energy related ETPs ,,,)**
4. **ICT for energy-efficiency in industry & society (Artemis+ Eniac+ EPoSS + ECSEL, E2BA + EFFRA+ collaborating ETPs + energy related ETPs,,,,)**

- **Existing identities are to cover these areas with related identities**

Impact

- **To help the Industry to produce Low Cost and Highly Efficient energy related products**
- **Faster introduction of the Low Cost and Highly Efficient energy related products to the Market**

Thanks for your Attention

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