

The European Sensor Systems Cluster (ESSC)

European Sensor Systems Cluster – ESSC

Cluster governance

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AMIRES

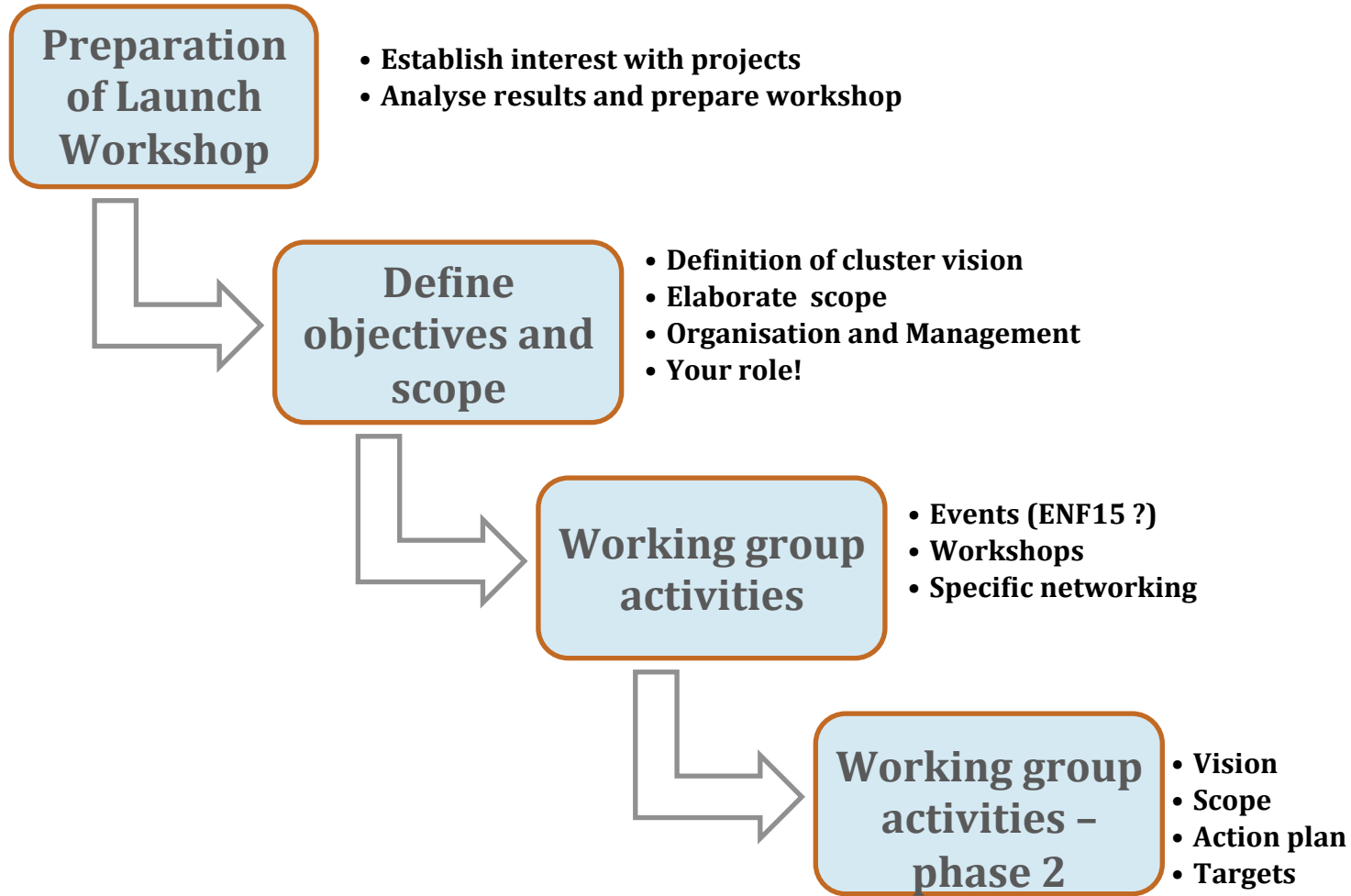


Why ESSC?

Application/technology	Water pollution	Air pollution/security	Bio and health	Agriculture	Industrial applications
Organic Electronic		TANOGAPPS (People), E-GAMES (ERC)	IONE-FP7 (NMP) TANOGAPPS (People) LASERMICROFAB (People)		SMARTRONICS (NMP)
Fluorescence and imaging			GENETIC NANOPROCESSES (People), NanAtherosclerosis (NMP), (NANOSAN)		
Lipid membranes/cells/biomarkers	AQUAVIR (NMP)	NOFOSENSOR (NMP)	SMART (People), LITMUS (People)	<u>Water4crops</u> (KBBE)	
Plasmonics and nanophotonics (e.g. CMOS, QD)	ACQUA (NMP)	NOFOSENSOR (NMP)	SMART (People), LITMUS (People)		EDISON-GA (People), MERMIG (Space), WIROX (People)
MEMS (e.g. MIR by QCLs, light sources AFM)	ACQUA (NMP)	NOFOSENSOR (NMP)	PROMISING (ERC), QSense (People)	BIOSENSORS-AGRICULT (People)	
Chemical (covalent bonding and responsive polymers)	SMONDEP (People), NAPES (NMP)		SMONDEP (People)		
Existing application clusters (incl. end-users)	WSSTP, nano4water	EuNetAir, E2B, ama-sensorik, NanoBioNet	ETPN, MNBS		

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ESSC timeplan

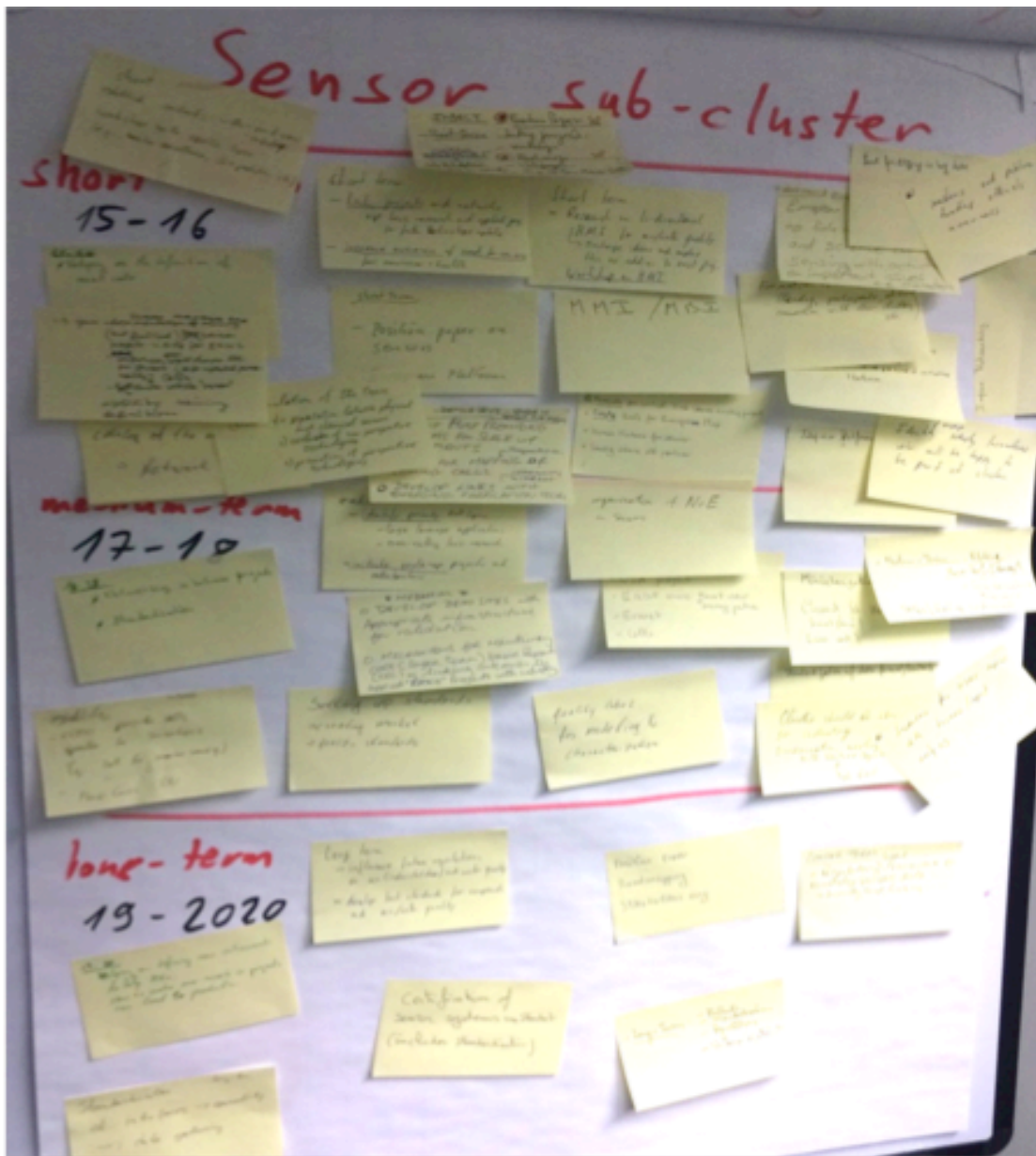


3Q 2014

4Q 2014-
1Q 2015

2-3Q 2015

4Q 2015 - ...



- Specific workshops
- Pan-European structure (ETP-like)
- Engage industry and investors
 - EU roadmap
- Suggestions/advice to H2020 for business impact
- Include upscaling
- Standardization and unified data format

ESSC Governance

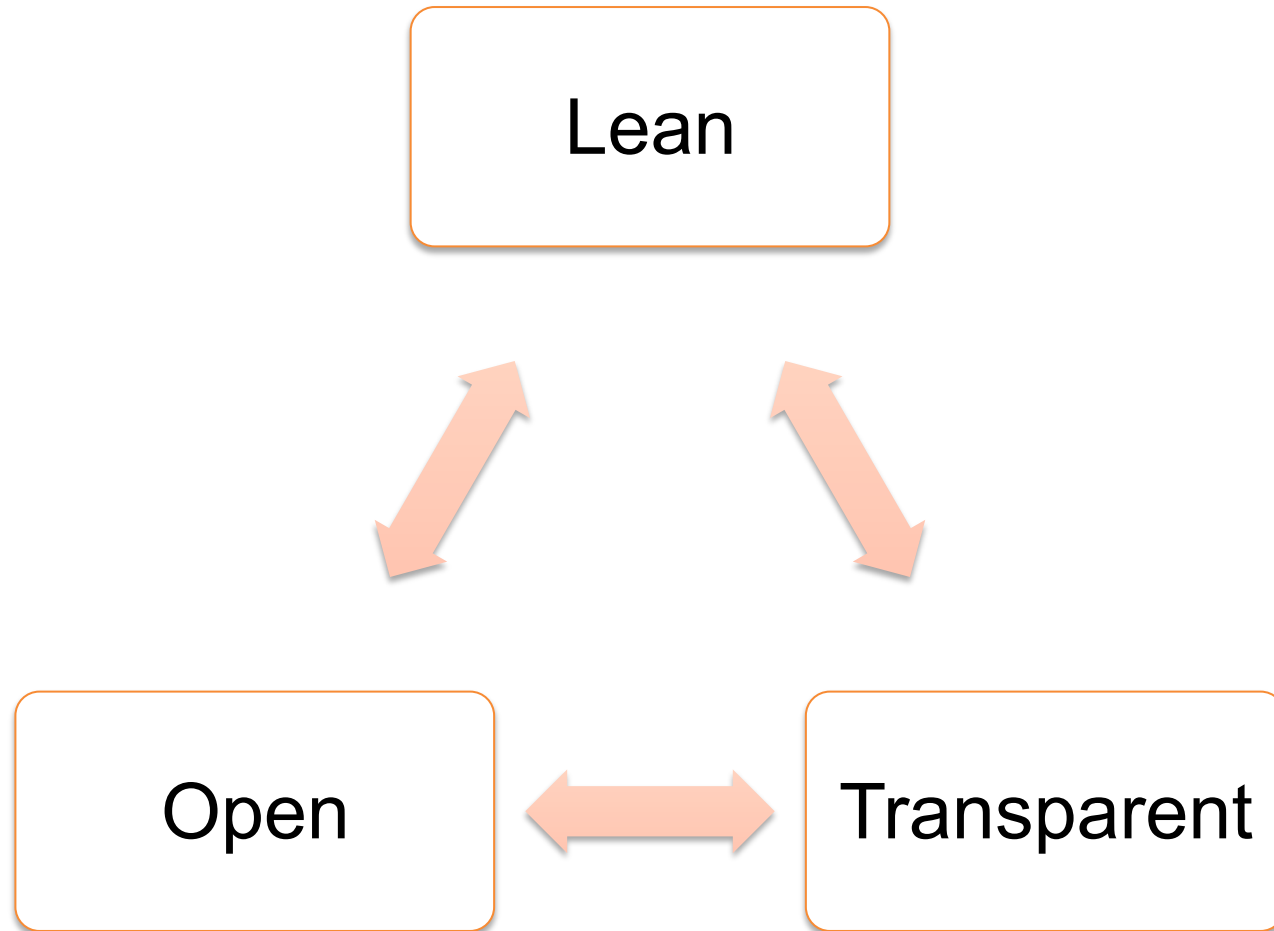
- **Chairman of ESSC:** Michele Penza, ENEA, Italy - michele.penza@enea.it
- **Coach of ESSC:** Rudolf Frycek, Amires, Switzerland - frycek@amires.eu
- **EC Observer:** Hans Hartmann Pedersen (*EC Officer*)
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Application WG	Leader	Institution	Email
Environmental	D. Diamond	Dublin City Uni	dermot.diamond@dcu.ie
Indoor Air Quality	A. Schütze	Saarland Univ.	schuetze@imt.uni-saarland.de
Health Monitoring and Comfort	P. Galvin	Tyndall	paul.galvin@tyndall.ie
Monitoring of Industrial Processes	T. Mayr	TU Graz	torsten.mayr@tugraz.at
Sensor System Integration and Commercialization	O. Martimort	Nanosense	martimort@nano-sense.com
Dissemination and Outreach	T. Simmons	AMA Sensorik	simmons@ama-sensorik.de



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ESSC governance principles



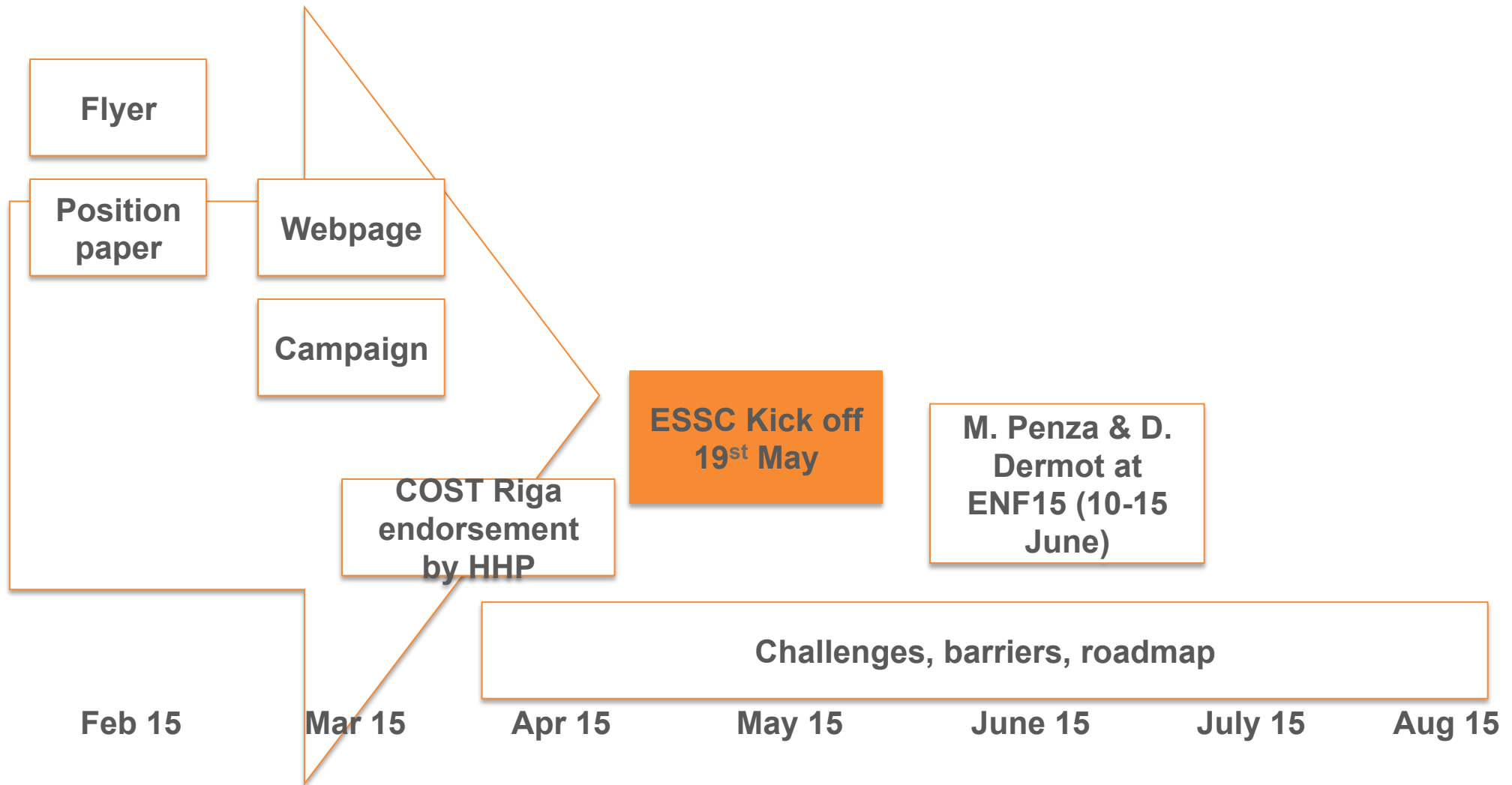
To become a member

- Register at: <http://www.cluster-essc.eu>
- Membership approved by SC/WG leader
- Act proactively together (primary contact WG leader - coordinating role)
- Members of all stages of value chain needed
- Industry and application end-users are warmly welcome



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ESSC immediate plans



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Roadmapping activity

Timing:

- **Phase 1 (April – May 2015)**
(Outline and structure) – SC vote

- **Phase 2 (June – August 2015)**
(Full Roadmap) – all member vote

- **Roadmap will be presented at Euroensors 2015, Freiburg, Germany (6-9th September)**



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The future belongs to those who create it!

THANK YOU FOR YOUR ATTENTION!



www.cluster-essc.eu

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