













European Sensor Systems Cluster – ESSC

Cluster governance

Rudolf Fryček, PhD.

PTA/Coach of the ESSC

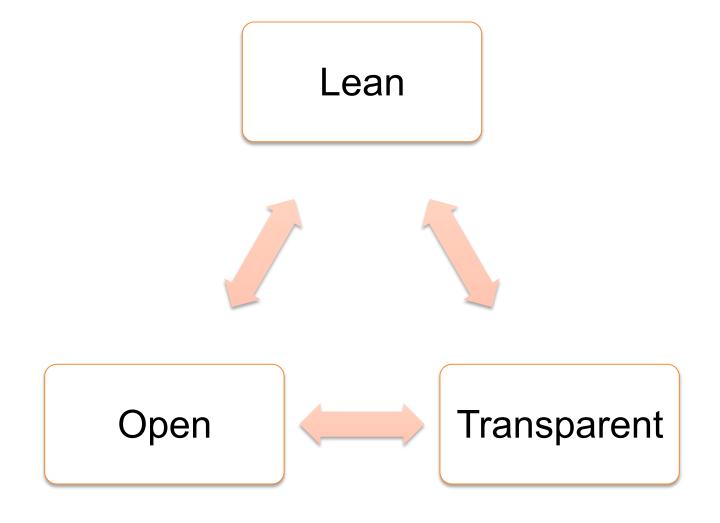
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ESSC governance principles





ESSC born from EU projects

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 (Per		SMARTRONICS (NMP)
Fluorescence and imaging		4	ENETIC NA OPRO 3 (People), Athero 'P), (N. NAN		
Lipid membranes/ cells/biomarkers	AQUAVIR (NMP)	NOT OSENSOR (N'))	SMA, LTN:	Water4crops (KBBE)	
Plasmonics and nanophotonics (e.g. CMOS, QD)	AC	M	IPLEAS D 1ART (ERC)		EDISON-GA (People), MERMIG (Space), WIROX (People)
MEMS (e.g MIR by QCLs, light sources AFM)		QSense	PROM.SING RC), MOS (IL T-large)	BIOSENSORS- AGRICULT (People)	
Chemical (covalent) bonding and responsive polymers	SMC JEI (Pecple), NAPES (N		SMONDEP (People)		
Existing application clusters (incl. end-users)	WSSTP, nano4watter	EuNetAir, E2B, ama-sensorik, NanoBioNet	ETPN, MNBS		





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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	N.	Name Institute	Info Approved Update		
	1	Yvonne Joseph	TU Bergakademie Freiberg		
	2	Soleimani Manuch	University of Bath, UK		
	3	Estrela Pedro	University of Bath		
	4	Holger Kappert	Fraunhofer Institute for Microelectronic Circ		
	5	Daskal Yelyena	TU Freiberg		
	6	BLONDEL Philippe	University of Bath		
	7	Jakoby Bernhard	Johannes Kepler University Linz		
	8	Stepankova Veronika	Enantis, s.r.o.		
	9	Bowen Chris	University of Bath		
	10	Bidmanova Sarka	Loschmidt Laboratories, Department of Experim		
	11	Lohweg Volker	Institute Industrial IT		
	12	Robert Lettow	Mettler Toledo AG		
	13	Marcel Bouvet	University of Burgundy		
	14	Romano-Rodriguez Alber	tUniversitat de Barcelona		
	15	Reimringer Wolfhard	3S GmbH		
	16	Huotari Joni	University of Oulu / Microelectronics and Mat		
	17	Wolfgang Dettmann	Infineon Technologies AG		
	18	Jerome BRUNET	Institut Pascal – Baise Pascal Universi		
	19	Briand Danick	Ecole Polytechnique Fédérale de Lausanne (E		
	20	Edith Pajot	INRA		
	21	Stefan Köstler	Joanneum Research; Institute for Surface Tech		
	22	VITER Roman	Institute of Atomic Physics and Spectroscopy,		
	23	Hubálek Jaromír	Brno University of Technology, Research Centr		
	24	Michael Maiwald	Bundesanstalt für Materialforschung		
-					



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



To become a member





To become a member

SITURS COUNTER	Telephone:	Mo Tu We Th Fr Sa Su
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Online 1 Tot p.views 3386	Mobile:	14 15 16 17 18 19 20
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	Background related to the ESSC (research activities, institute/company profile	
	related to ESSC)	
		Show all News
		in archive.
		Name I lat
		News List
	Personal S&T Activities and Team Activities related to the ESSC	
	Planned contribution to the European Sensor Systems Cluster (ESSC)	
	Interested Member to (please, sign one box or not more than two):	
	SC Steering Committee	
	WG1 Environmental Sensors	
	□ WG2 Indoor Air Quality Sensors	
	WG3 Health Monitoring and Comfort Sensors	
	WG4 Monitoring of Industrial Processes	
	WG5 Sensor-Systems Integration and Commercialization	
	□ WG6 Dissemination and Outreach	



Roadmapping activity

Timing:

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

FINISHED

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

DRAFT READY

Roadmap will be presented at Eurosensors
 2015 and finalized by November 2015



The future belongs to those who create it!

THANK YOU FOR YOUR ATTENTION!



www.cluster-essc.eu



Support slides

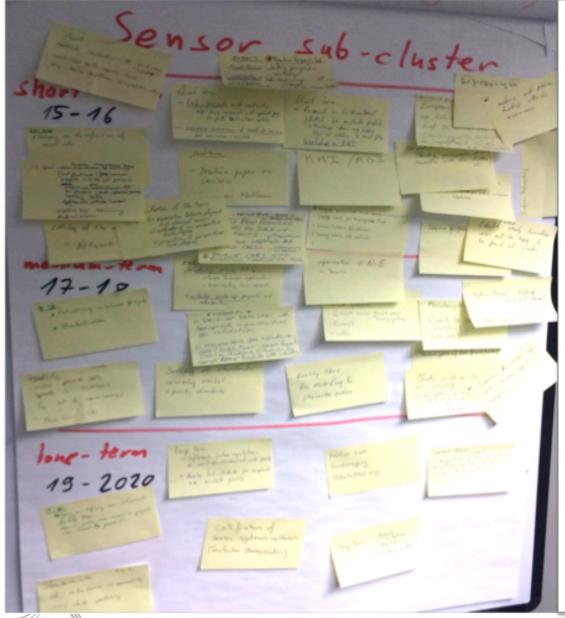


Electronic catalogue of projects/prototypes



- Market intelligence database of energy efficient products and solutions
- 48 products, 8 prototypes in sensor category
- Features also PV modules, Facades, Windows
- Free access! for every shared product / prototype





- 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



Suggestions for short term actions (2015-2016)	votes
Generate critical mass – (link existing projects) – networking (workshops with specific topic–water, air pollution, HMI, etc.)	7
Initiate EU recognizable structure (like ETP)	4
Identify & engage industry & investors (public and private)	4
European roadmap – position paper	3
Mapping of coming H2020 calls and support in preparation	3
Survey across all partners and partners catalogue	2
Webpage	2
Select most promising platforms for scale up	1
Develop links with emerging fabrication technologies	1
Organization of NoE on sensors	1
Awareness of need for sensors for environmental monit.	1
Tool for sorting big data	1
Formulation of the technical focus of the cluster	1

Suggestions for medium term actions (2017-2018)	votes
Suggestion for H2020 topics with prior business impact analysis or cross boundary programme	5
Involvement of industry, SMEs and start ups – in cluster and projects, incl. scale up projects	4
Standardization of data format – comparable data & selling up standards (market creation)	3
Launch Marie Curie ITN, CSA, ERDF, ERANET	2
Involvement of investors (workshops), cluster as advisors	1
Quality label for modeling & characterization	1
Miniaturization (wearable and smartphone)	1
Networking	1
Develop demosite(s) for validation	1
Maintain support to basic research (ERC-like)	1

Suggestions for long term actions (2019-2020)	votes
Standardization (protocols, certification, regulations) of sensors, systems (e.g. connectivity) and for quality of air and water	4
Legal and regulatory framework for remotely sensed data (security, trust, privacy)	1
Relationship with investors (incl. VCs)	1
Position paper & roadmapping	1
Defining new instruments to help SMEs and support to products	1