US EPA ARCHIVE DOCUMENT

ACQUEAU CORPORATE PRESENTATION
SEPTEMBER 2014

EUREKA

ACQUEAU

WATER SECTOR IN EUROPE

BOOST COMPETITIVENESS
& ENCOURAGE COOPERATION

Key drivers

Huge market
Considerable assets
Large social impact
Health

Key challenges

Unequal avaibility over the world
High energy consuming
Non-efficient use

Key features

Thousands of water service providers
Very large, long life assets
Wide spectrum of industrial activities and technologies
Diffuse and dispersed knowledge

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WHAT IS ACQUEAU?

EUREKA cluster for Water and related technologies

- Established in April 2010
- Supported by more than 25 countries and 70+ companies across Europe
- AISBL established in Brussels (ESE offices)

Vision and road map

- To facilitate the generation of market-driven, pan-European collaborative water R&D projects
- 9 major components based on water cycle
- 5 major programs for key technological needs
- Open to any proposal relevant to the strategy - BLUE BOOK -

EUREKA label and open call process

- 20 projects labelled - volume of 66M€ -
- ~33M € on-going projects

OUR STRUCTURE

TECHNICAL FIELD

Scientific Committee

Blue Book update
Calls preparation
Project proposals review
Projects follow-up

CLUSTER MANAGEMENT

Board selected members

Executive Committee

SC nomination, Calls validation
Selected project proposals labelling

Acqueau Office
Managers & Project officer

Day-to-day management,
Calls organisation
Projects follow-up
Communication & Events

FUNDING

National Representatives
HLR - NPC

National
Project
Officer

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BOARD MEMBERS (09/2014)

- Suez Environnement
- Veolia Environnement
- Hydrelis Water Control
- NXP
- Kemira
- Suez Environnement Degrémont
- BASF The Chemical Company
- TZW Technologiezentrum Wasser
- Veolia Wasser
- Mekorot Israel National Water Co.
- Agbar
- Abengoa
- Acciona Agua
- Águas do Ribatejo
- Atkins
- UKWIR
- KWR Watercycle Research Institute
- DHI
- Dizayn Grup

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SCIENTIFIC COMMITTEE

Pr. Tom STEPHENSON (Cranfield University) - CHAIR

Pr. Martin JEKEL (Technische Universität Berlin)

Pr. Gertjan MEDEMA (KWR – Delft university of technology)

Dr. Esa Sakari MELIN (independant)

Dr Brian MERGELAS (WATERTAP)

Pr. Ahmet METE SAATÇI (Marmara University)

Pr. Eberhard MORGENROTH (EAWAG)

Dr. Uwe MÜLLER (Technologiezentrum Wasser)

Dr. Joseba QUEVEDO CASIN (Universitat Politècnica de Catalunya)

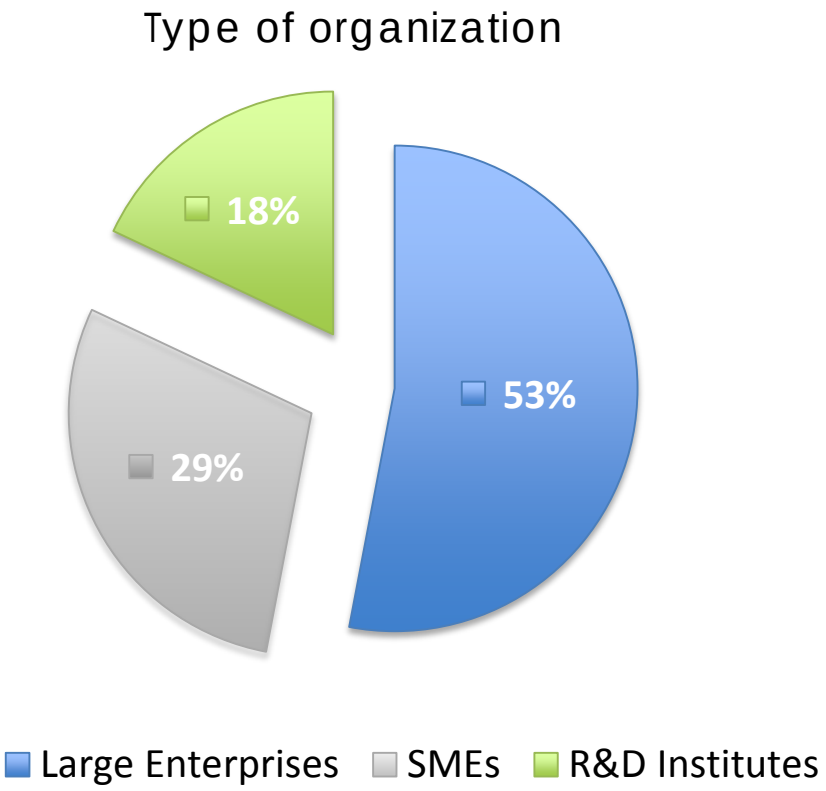
Pr. Hannes RAUTENBACH (Pretoria University)

Pr. Martin TILLOTSON (Leeds University)

Dr Daniel VILLESSOT *(Pole compétitivité DREAM)*

Dr. Prof. Hans ZOJER (Waterpool Competence Network)

ACQUEAU MEMBERS



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Large Entreprises

BASF The Chemical Company
MEMBRANA
mir holding
AQUALOGY Where water lives.
HOMERIDER SYSTEMS
United Utilities
MEKOROT ISRAEL NATIONAL WATER CO.
NXP
ABENGOA WATER
LIMCO international limnologyconsultant
Vitens
acciona Agua
GRUPO AGUAS DE VALENCIA
aqyesa
VEOLIA ENVIRONNEMENT
Azvi
DiZAYN GRUP
CASSIDIAN
KRÜGER
ATKINS
Agbar
kemira
UKWIR
csem
HYDROTECH

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SMEs

memsys

MSI grupo

corexsolar

infraeco INFRAESTRUCTURA Y ECOLOGÍA

CORDOUAN Technologies

HOCER

NEROXIS

adevice

cotesa

energisme

Aqua Explorer INNOVATIONS IN WATER

Optisense

LOG PRO Conseil, Assistance & Formation en Logistique

ÁGUAS DO RIBATEJO

SOCIETE DU CANAL DE PROVENCE ET D'AMENAGEMENT DE LA REGION PROVENÇALE SCP

grupo TECOPY

Wellness Telecom

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RESEARCH INSTITUTES & UNIVERSITIES

ENTPE

eawag aquatic research

TZW Technologiezentrum Wasser

DHI The expert in WATER ENVIRONMENTS

INSTITUTO SUPERIOR TÉCNICO Universidade Técnica de Lisboa

KWR Watercycle Research Institute

isa Institut des Sciences Analytiques

Berliner Wasserbetriebe

cea leti

LNEC LABORATÓRIO NACIONAL DE ENGENHARIA CIVIL

LEHNA

UNIVERSIDAD DE SEVILLA

SIMTEJO Grupo Águas de Portugal

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TECHNOLOGY ROAD MAP

ACQUEAU Blue Book is the reference and strategic document

9 Technology Areas

5 Major Technology Needs

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9 TECHNOLOGY AREAS

Water Resources

Protect Water Resources & Prevent Damages

Water Treatment

Anticipate emerging quality issues and protect the public health

Water Distribution

Optimise the cost of the management of water

Customers

Enforce the trust and confidence of customers towards water

Agriculture

Achieve a sustainable production while protecting water resources

Industry

Ensure a sustainable use of water in industrial processes

Urban Drainage & Collection

Prevent foul water flooding

Wastewater Treatment

Changing from a consuming industry to one producing resources

Biosolids

Maximise energy and resource recovery

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5 MAJOR TECHNOLOGY NEEDS

Membrane Technologies

Develop European know-how and equipment

Real Time System Management

Improve the operation networks and reduce the cost of construction

Low Energy Wastewater Treatment

Achieve a neutral or positive energy balance

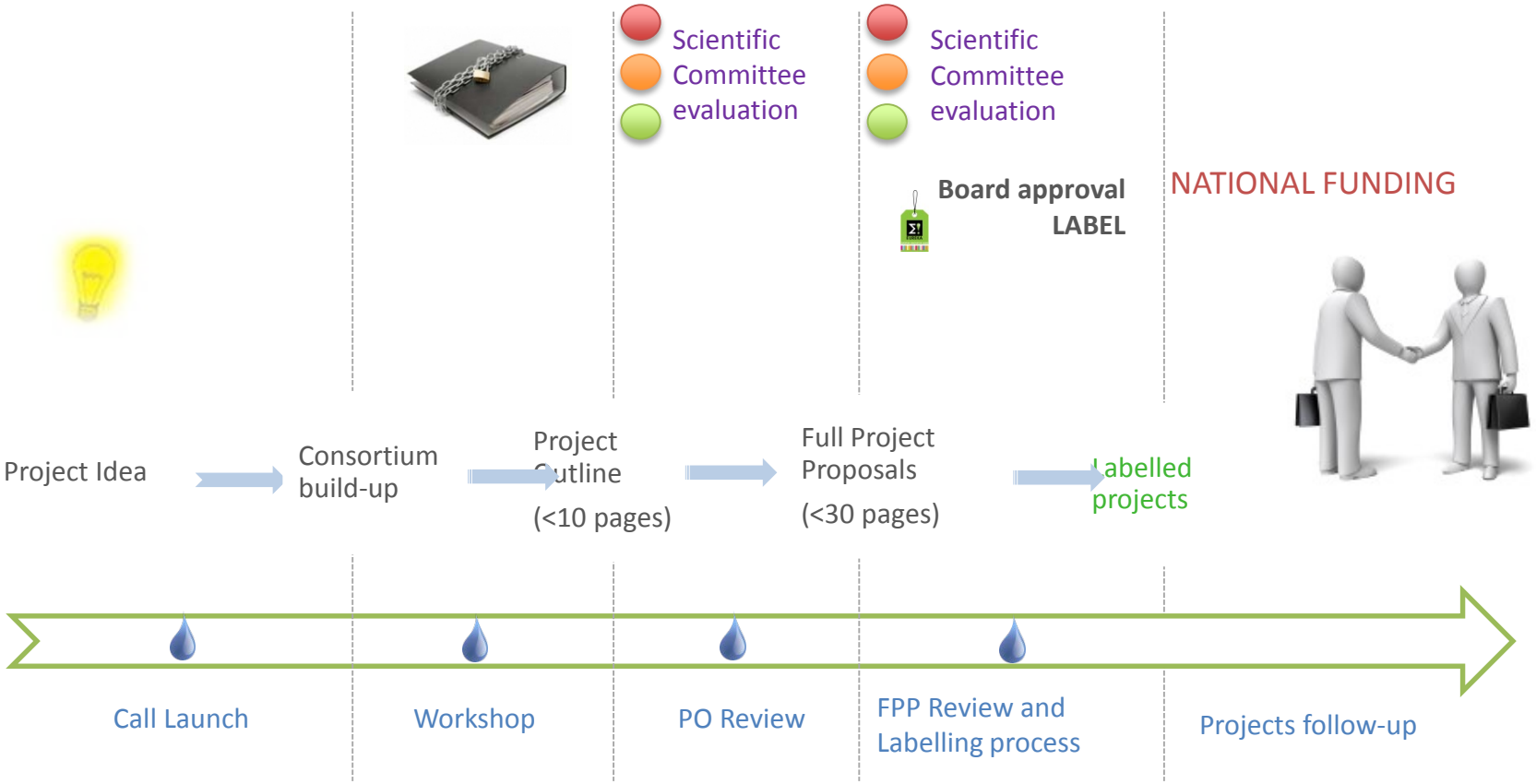
Materials for pipes and coating

Strengthening European competitiveness in the area of nano-based materials in contact with water

Low energy processes for disinfection &Oxidation

Develop new disinfection or other oxidation processes for the removal of microbiological activity

OPEN CALL



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CONSORTIUM BUILD UP

Eligibility & conditions

- Proposal : - any market oriented project idea in the context of the water cycle and the Blue Book
  - strong exploitation orientation

- Consortium : min 2 entities from 2 different participating countries

- Contribution : - any partner country must not exceed 70% of the total budget
  - any partner organisation must not exceed 70% of the total budget

- Fees : Administratives : 0.15% of the proposal budget
  Management : 1.5% of the proposal budget

PROJECT OUTLINE (PO)

- What is? PO is a short description of your project proposal in 10 pages maximum

- Related documents : PO + Letter of Intent

- Assessment : 1/ ACQUEAU Scientific Committee (technical content)

  2/ National Project Officer/Coordinator (relevance to national priorities)

- Evaluation:
  - The project cannot be accepted as it is (possibility to re-submitted)
  - The project continue to FPP stage (recommendations have to be addressed)
  - The project continues to FPP stage

FULL PROJECT PROPOSAL (FPP)

- What is? FPP is a full description of your project proposal in 30 pages maximum

- Related documents : FPP + Commitment Letter + Consortium Agreement

- Assessment : 1/ ACQUEAU Executive Office (company validity and draft consortia agreement)
  2/ ACQUEAU Scientific Committee (technical content)
  3/ National Project Officer/Coordinator (relevance to national priorities)
  4/ ACQUEAU Board (decision of labelisation)

- Evaluation:
  - The project is not suitable for labelling
  - The project needs further work to be labelled
  - The project is suitable for labelling

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PARTICIPATING COUNTRIES

25 countries across & beyond Europe

Austria/ Belgium/ Canada/ Croatia/ Czech Republic/ Denmark/ Finland/ France/ Germany/ Israel/ Luxembourg/ Malta/ Monaco/ Norway/ Poland/ Portugal/ Slovakia/ Slovenia/ Spain/ Sweden/ Switzerland/ The European Union/ The Netherlands/ Turkey/ UK

South Africa

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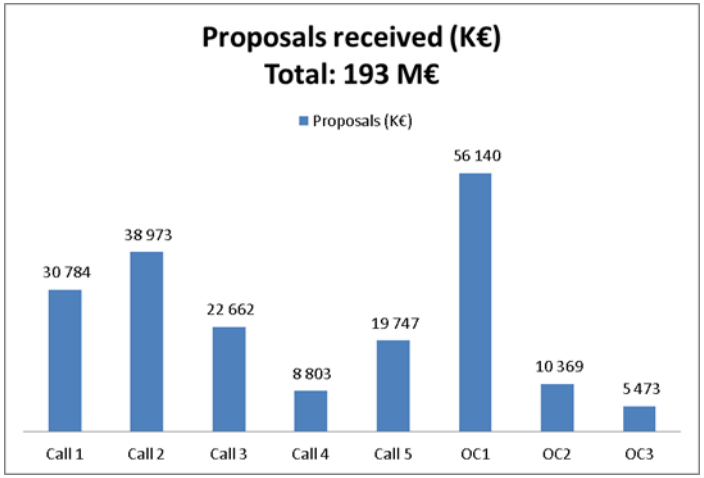
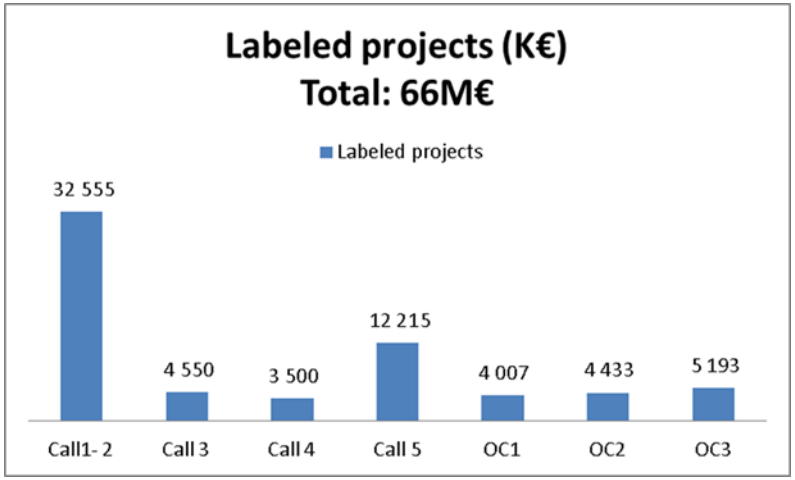
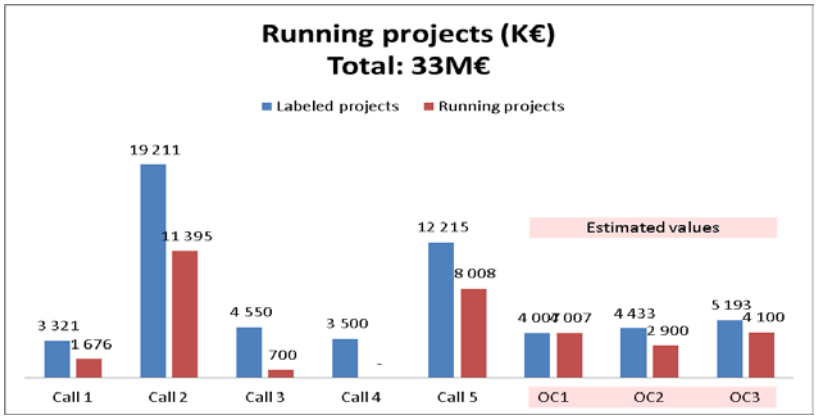
PROJECTS







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PROJECTS PROFILE

3 M€ Average Costs per project	6 Average participants per project
3 Average countries per project	3 years Average duration of the project