



EUROPEAN TECHNOLOGY PLATFORM
ON SUSTAINABLE MINERAL RESOURCES

Memorandum of Understanding

Support to the Collaborative Project

Economically and Ecologically Efficient Water Management in the European Mineral Industry

EWA

By the Sustainable Mineral Resources (SMR) and Water Supply and Sanitation (WSSTP) European
Technology Platforms:

The EWA

The mineral and mining industry requires large amount of water for their everyday operations. Regional climatic conditions, the type of mineral being mined, the processes being operated at the mine, and local regulatory considerations all affect whether water is viewed as a valued resource or as a nuisance that requires management and disposal which poses a threat to the environment. To reduce and improve water usage in mineral industry several industrial needs have been identified by stakeholders and are included in the research agendas of the SMR and WssTP Technology Platforms. They are also acknowledged by other industrial sectors (e.g. galvanic, metal industry, paper industry and chemical industry) and other actors in the water value chain. A broad consultation with industrial stakeholders, supported by the Technology Platforms during the preparation of EWA led to a strong EWA consortium: A combination of key players in the Mineral Industry and experts in integrated/symbiotic water management frameworks and water treatment technology development.

EWA is aiming for a shift in sustainable thinking in the Mineral industry to create a breakthrough in industrial water treatment by:

- Enhancing reuse, recycling and valorisation of complex, high concentrated wastewater. Eliminating today's bottle neck, the high costs of treatment conventional technologies. That prevents a real step change in eco-efficient industrial water management / or: on the way to zero discharge.
- Integrating symbiotic industrial water treatment concepts: among processes, on-site and on local scale in an integrated, multi-disciplinary and holistic approach and linking process industries, urban and agricultural water streams.
- Integrating mineral industry across Europe and further along the value chain in EWA development, testing and demonstration, ensuring a maximum impact in their own and related industry sectors (e.g. mining, energy, galvanic, metal).

P/A EMiReC - Avenue De Broqueville 12 – B-1150 Brussels – BELGIUM –
Tel: +32 2 775 63 31 – Fax +32 2 770 63 03 – emirec@emirec.org - www.etpsmr.org

Shaw

M. K. ...



**EUROPEAN TECHNOLOGY PLATFORM
ON SUSTAINABLE MINERAL RESOURCES**

- Providing tools (link to BREFs/BAT, LCA and reliable process models) that allow industrial decision makers informed decisions on industrial application of EWA developments in Europe and beyond, to ensure their direct exploitation.

This proposal is in full compliance with the Strategic Research Agendas of SMR and WssTP Technology Platforms.

Support to EWA

Within the Collaborative Project EWA, the partners TR, Mintek, BRGM, IMN and TNO are representing the SMR Technology platform.

Within the Collaborative Project EWA, the partners : Suez/Ondeo IS, TNO are representing the Water Supply and Sanitation Technology Platform (WssTP).

SMR is willing to support the EWA project to fulfil crucial process industry needs, to overcome bottle necks and barriers for an integrated and energy efficient water management in Mineral Industry.

WSSTP is willing to support the EWA project to fulfil crucial process industry needs, to overcome bottle necks and barriers for an integrated and energy efficient water management in Mineral Industry.

By:
Mike Farrimond
Chair of the WssTP Board

On behalf of WssTP
European Technology Platform for Water Supply and Sanitation

By:
Henryk Karas
Chairman of the SMR Board

On behalf of SMR
European Technology Platform for Sustainable Mineral Resources