G-Eau’s work covers the majority of IM2E’s disciplines and challenges:

- The unit coordinates the “water, actors and regions” theme and the “viability in water basins” challenge.
- It works closely with the agronomy community and jointly coordinates the “water & agriculture” challenge.
- Its work also covers the “technological innovation” challenge, with a particular focus on the technical feasibility and consequences of wastewater reuse in irrigation.
- Its vulnerability research overlaps with other work in the hydro-climatic risks discipline, bringing an HSS perspective to the “contaminants and health risks” challenge.

G-Eau’s work is led by teams focusing on specific challenges:

1. **Hydraulic management, optimisation and supervision of water transfers (GHOSTE)**
   - Led by MALATERRE Pierre-Olivier
   - MALATERRE Pierre-Olivier
   - pierre-olivier.malaterre@irstea.fr

2. **Optimising irrigation technologies and steering practices: minimising inputs and environmental transfers (OPTIMISTE)**
   - Led by BELAUD Gilles
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   - gilles.belaud@supagro.fr

3. **Controversies and public actions (CAP)**
   - Led by BARONE Sylvain
   - BARONE Sylvain
   - sylvain.barone@irstea.fr

4. **Innovations and changes in irrigated agriculture (INCA)**
   - Led by ROLLIN Dominique
   - ROLLIN Dominique
   - dominique.rollin@irstea.fr
   - VENOT Jean-Philippe
   - VENOT Jean-Philippe
   - jean-philippe.venot@ird.fr

5. **Tools and governance of water and sanitation (OGEA)**
   - Led by GUÉRIN-SCHNEIDER Laetitia
   - GUÉRIN-SCHNEIDER Laetitia
   - laetitia.guerin-schneider@irstea.fr

6. **Socio-hydrological dynamics of water territories (Socio-Hydro)**
   - Led by RIAUX Jeanne
   - RIAUX Jeanne
   - jeanne.riaux@ird.fr

7. **Water and societies interrelated dynamics adaptations (Adaptations)**
   - Led by ERDLENBRUCH Katrin
   - ERDLENBRUCH Katrin
   - katrin.erdlenbruch@irstea.fr

8. **Participation for water management (PAGE)**
   - Led by BOUARFA Sami
   - BOUARFA Sami
   - sami.bouarfa@irstea.fr

9. **Experimental analysis of social-hydrological dynamics and regulations (AnExpe)**
   - Led by FAROLFI Stefano
   - FAROLFI Stefano
   - stefano.farolfi@cirad.fr

10. **Evaluation: creating and using indicators (EVE)**
    - Led by MORARDET Sylvie
    - MORARDET Sylvie
    - sylvie.morardet@irstea.fr
Thesis topic: “Performance contracts in the Ugandan urban water sector, structures of the market logic’s materialisation and supports for institutional work”


Thesis topic: “Participatory planning, evaluation and institutional dynamics in African Natural Resource Management (NRM)”

Emeline HASSENFORDER
Jointly supervised by: ANU (Canberra – Australia)

Thesis topic: Assessing the productivity of irrigation water through modelling: subsurface drip irrigation for corn in deep loam soil

Rami ALBASHA

Thesis topic: Design and assessment of combined financial incentive and social preference water management instruments: groundwater withdrawal for agricultural use

Anne-Gaëlle FIGUREAU
2016 SHF-Pierre Massé award +water and society+ winner

Thesis topic: A burgeoning technical innovation: drip irrigation in practice in Morocco – actors, makeshift systems and efficiency

Maya BENOUNICHE
Jointly supervised by: IAV (Rabat, Morocco)

Platforms and Equipments

- Lavalette experimental site: agricultural and environmental engineering research – Languedoc-Roussillon region, France.

- Gignac experimental site: irrigation canal regulation – Languedoc-Roussillon region, France.

- Montpellier SupAgro water technology facility – Languedoc-Roussillon region, France.

G-Eau keywords:

- Water and sanitation service
- Catchments
- Irrigated agriculture
- Adaptive management
- Vulnerability
- Public policy
- Aquatic environment quality
- Governance

Examples of partnership projects

ANR “Terra” CHEX (ANR scientific chair of excellence)
> The aim of this project is to analyse and model the impact of global environmental changes on water resources in semi-arid regions at different, embedded spatial scales.

EAU4Food (EU FP7-KBBE-AFRICA-2010)
> This programme involved five cooperative research projects focusing on irrigated farms in Tunisia, Mali, Ethiopia, South Africa and Mozambique. The ultimate aim was to move towards sustainable intensification of agriculture in Africa.

EAU&3E (ANR Sustainable Cities, coordinated by CIRED)
> This project addresses changing water consumption habits, looks to improve demand forecasting and seeks to predict the impact of different water savings incentive policies, particularly in the Languedoc-Roussillon region of France.