



ICRC



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

# EPFL - ICRC Partnership

## *Humanitarian Tech Hub*

Swiss Water Partnership, 18 May 2016, EPFL

*Dikolela Kalubi, [dkalubi@icrc.org](mailto:dkalubi@icrc.org), <http://cooperation.epfl.ch/hth>*

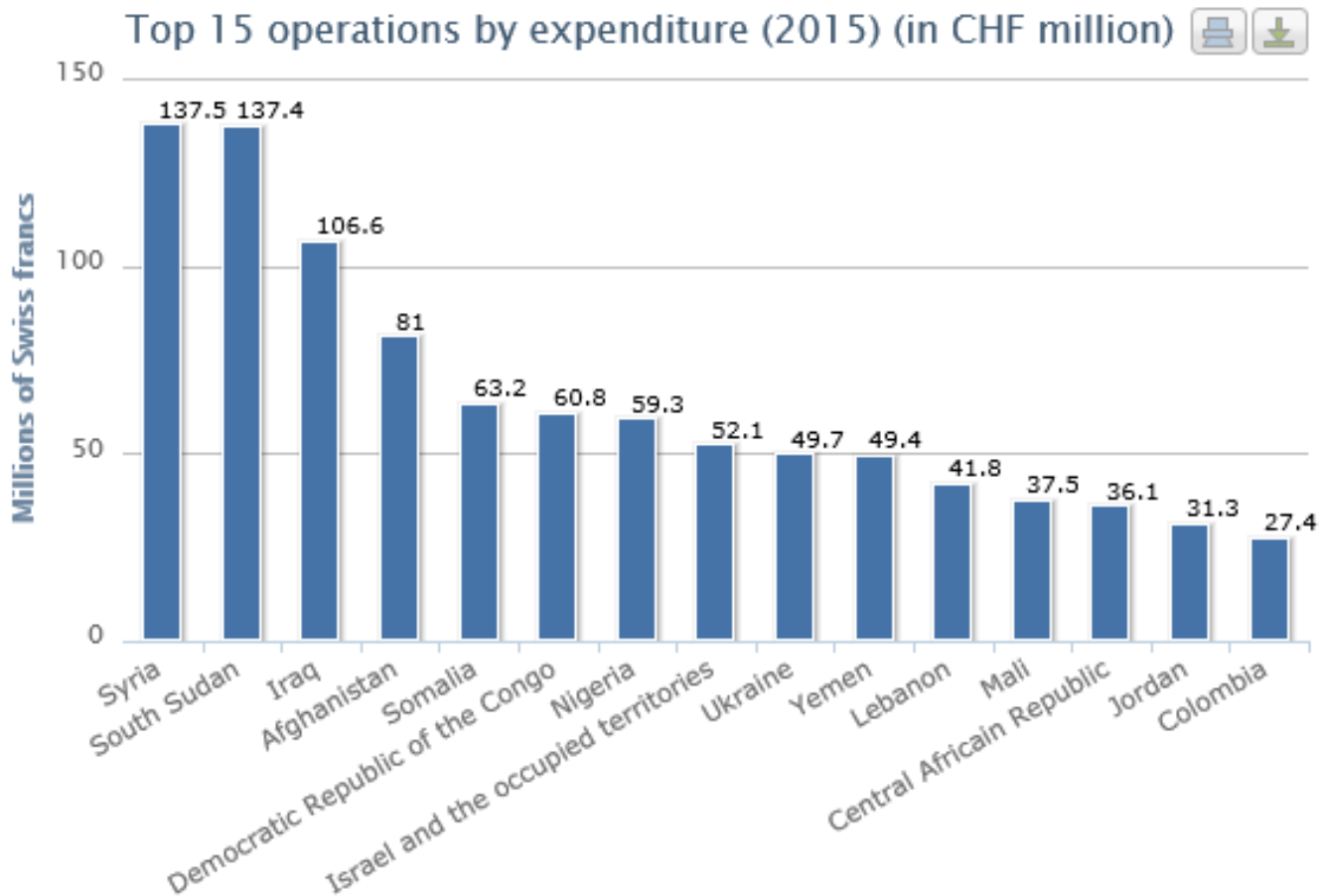
# ICRC activities

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**“Impartial, neutral and independent organization whose exclusively humanitarian mission is to protect the lives and dignity of victims of armed conflict and other situations of violence and to provide them with assistance”**

- **2,9 million** people received health care services through 441 hospitals and 415 health centers
- **13 million** people have received basic assistance, including food.
- **31.3 million** people benefited from water engineering, building and sanitation
- **929'000** detainees were visited
- **318'363** patients underwent orthopedic services in one of the 110 centers supported by the ICRC
- Training of armed forces in IHL
- Prevention and support for victims of sexual violence
- forensic science
- Action against landmines
- Cooperation with National Societies
- humanitarian diplomacy

# Context (1): conflicts last...



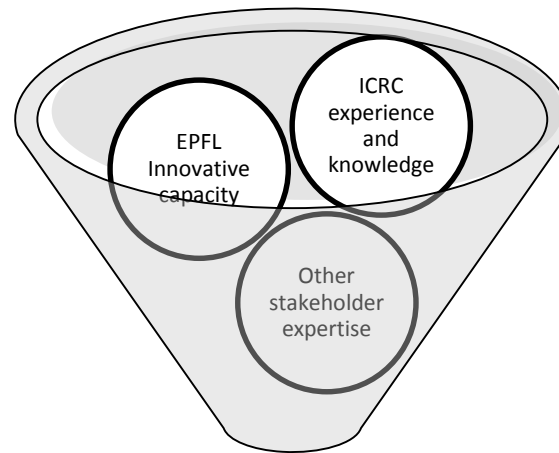
# Context (2): More complex...



→ New tools and approaches required...

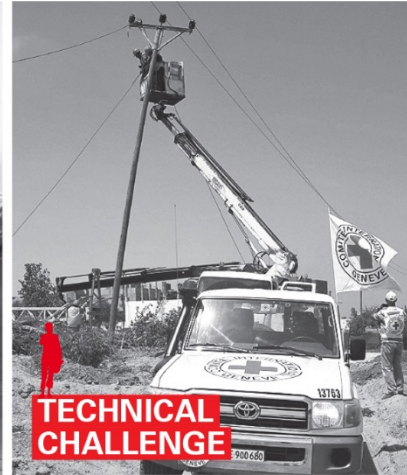
# EPFL – ICRC collaboration aims

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**Develop and deploy new essential technologies  
for humanitarian action**

# Mission



*Collaborate and mobilize advanced technological research to address today's humanitarian technical challenges*

# Activities

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Biomedical  
Engineering



Water &  
Sanitation



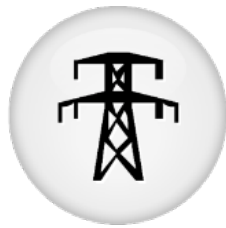
Construction



Logistic &  
Supply Chain



Food &  
Agriculture



Energy

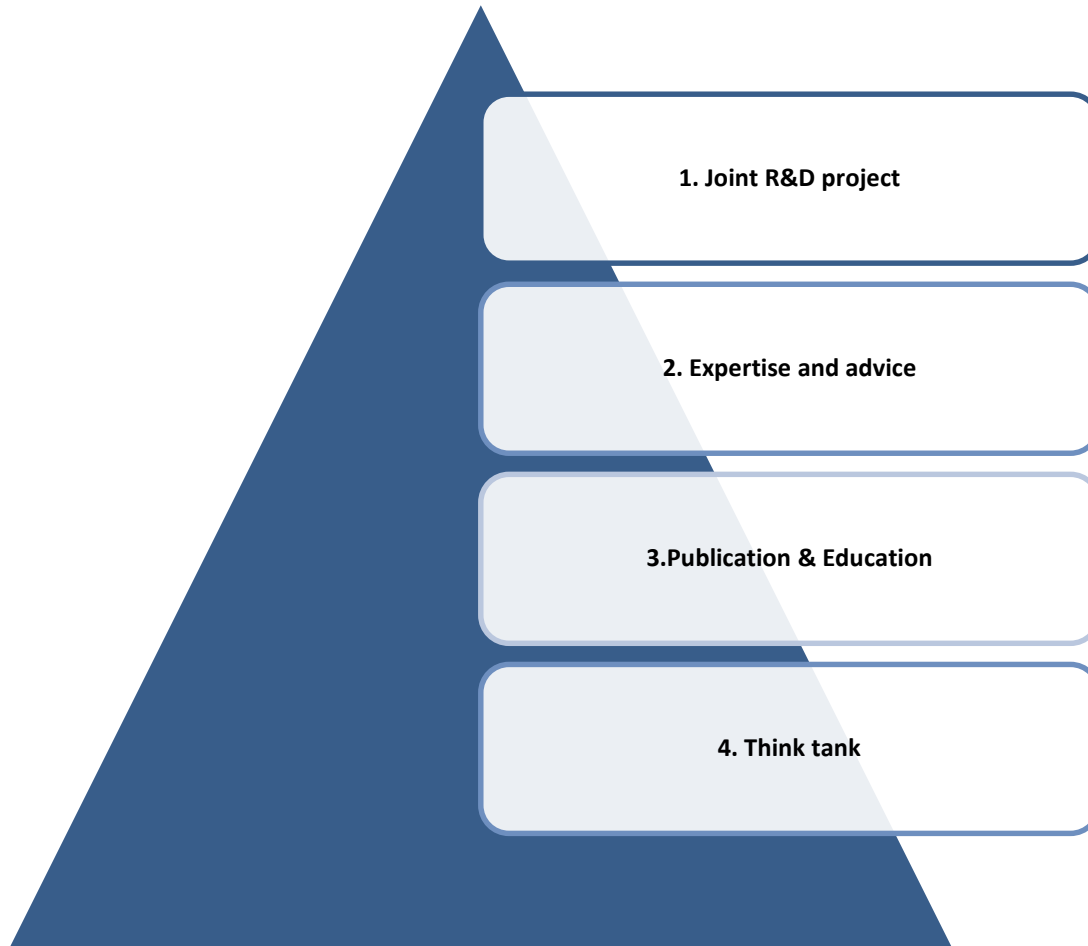


Information &  
Communication  
Technologies



# Activities

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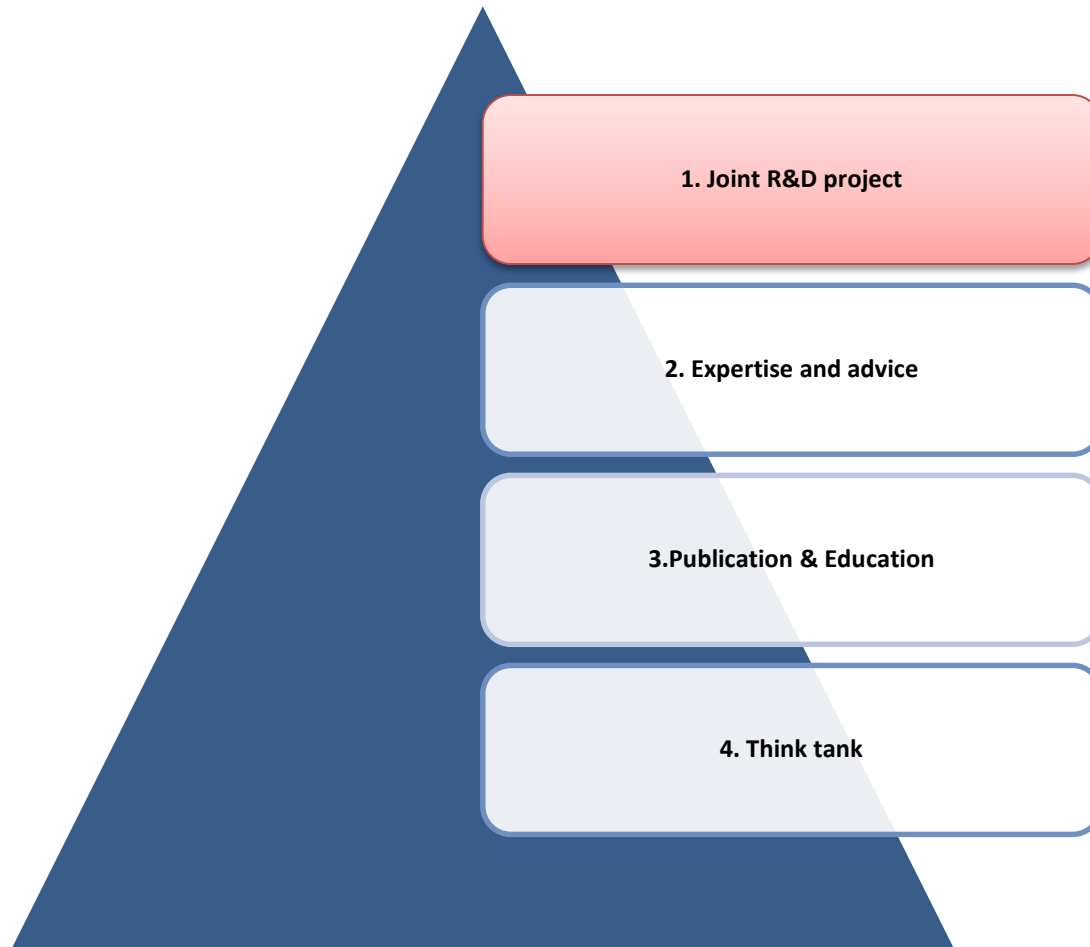






# Activities

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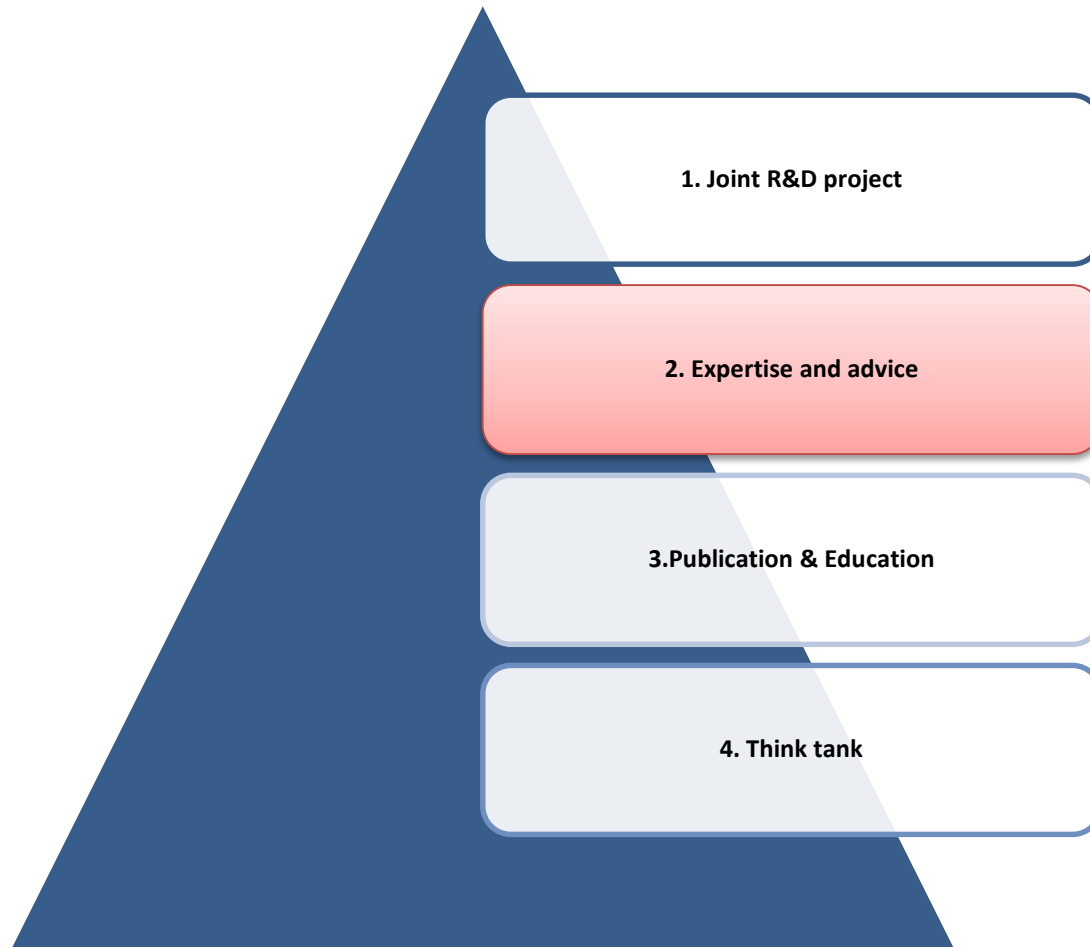
# Articulated prosthetic foot





# Activities

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- Remote monitoring of water access



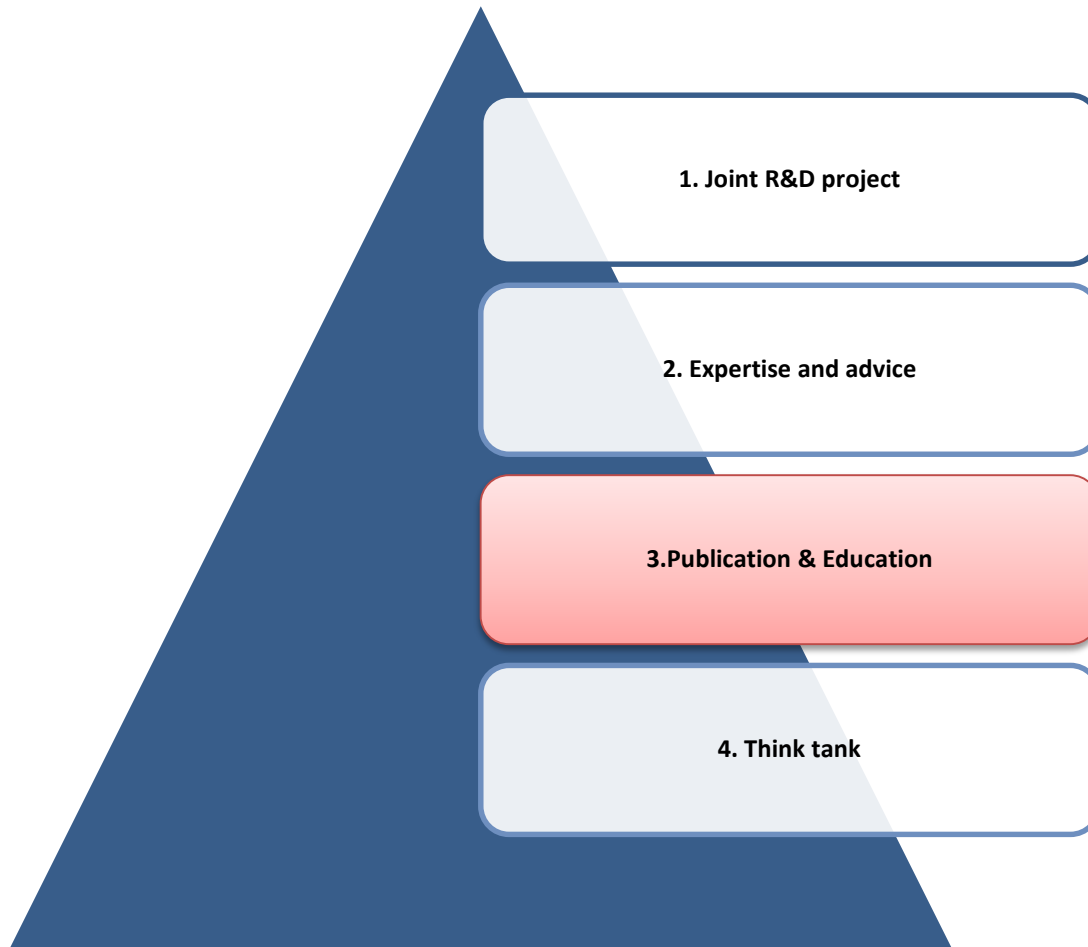
- Power supply resilience in health facilities





# Activities

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- OnSite Electro-Chlorination



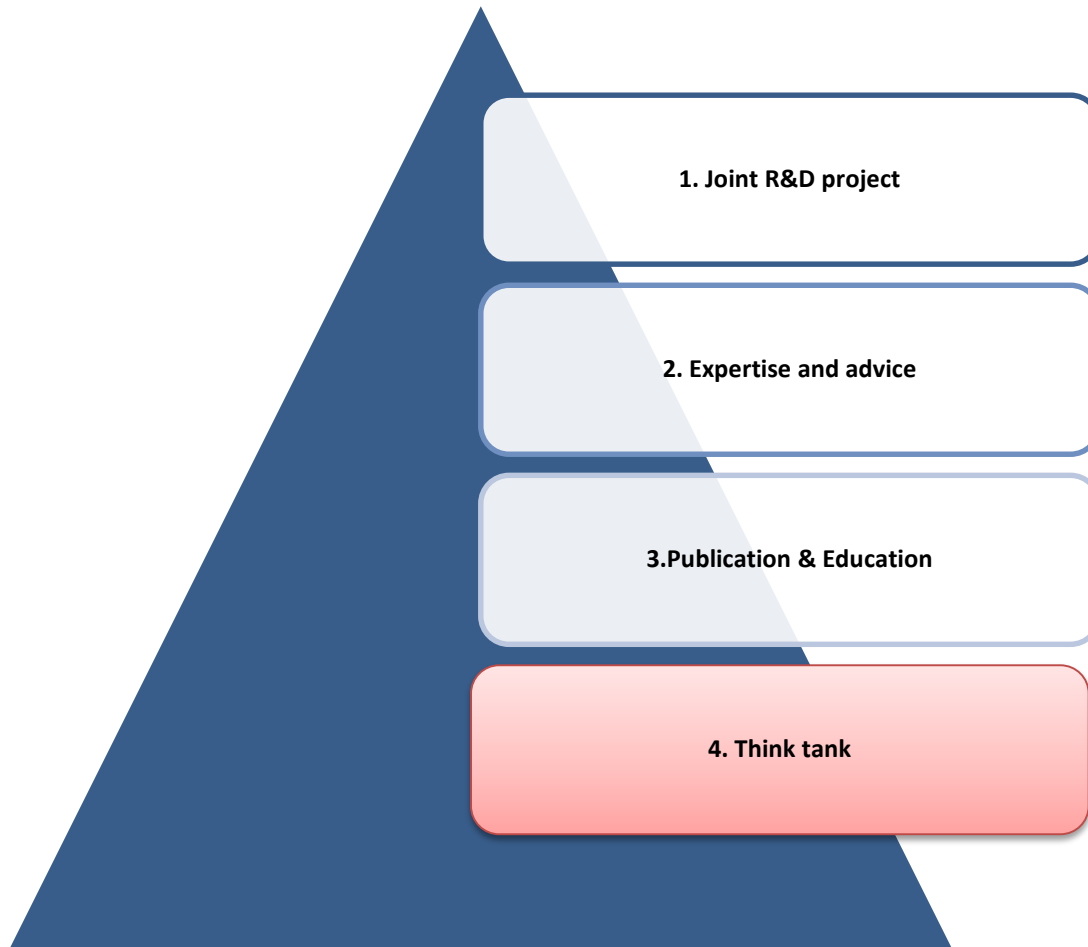
- DRR - MOOC





# Activities

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# Tech4Dev

COOPERATION & DEVELOPMENT CENTER – CODEV  
Ecole Polytechnique Fédérale de Lausanne – EPFL

UNESCO Chair in Technologies for Development



UNESCO Chair in Technologies for Development  
2016 INTERNATIONAL CONFERENCE

## FROM INNOVATION TO SOCIAL IMPACT

2-4 MAY 2016  
EPFL, LAUSANNE, SWITZERLAND

<http://cooperation.epfl.ch/2016Tech4Dev>

**CALL FOR  
ABSTRACTS**  
Deadline:  
6 NOV. 2015

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+41 21 693 60 48

AVANTAGE  
LAVAUZ  
ICRC  
EPFL

- Technologies for Humanitarian Action
- Medical Technologies
- Science and Technology for Disaster Risk Reduction
- Technologies for Sustainable Access to Energy
- ICT for Development
- Technologies for Sustainable Habitat and Cities



# Perspectives

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- Field tests
- New projects
- Additional partners

Thank you for your attention