

# Louvain Technology Transfer Office

**TECHNOLOGY OFFERS** MATERIAL TRANSFER  
SOFTWARE  
LICENSE  
SERVICES

ENGINEERING

BIOTECH / HEALTH

MATERIALS / ENERGY

GREEN / FOOD

## Efficient predictive modelling

### KEYWORDS

- Hybrid models
- Predictive models

### Technology & Advantages

Our group develops **models** that combine physically-based models and data-based models. Our models can **overcome the limitations** of standard models in terms of **prediction performances**

### The UCL background

The system analysis group has over 30 years experience in the **modelling of dynamical systems** in a wide variety of application fields, ranging from **biological** and **chemical systems** to **environmental systems**, via **hydraulic systems** (including predictions of heavy rains and floods), **electrical systems**, **mechanical systems** and **biomedical systems**.

### The UCL collaboration offer

The system analysis group proposes the development and validation of **hybrid models**, i.e. combinations of physically-based models and data-based models, in a **wide spectrum of applications** that can include for instance the **prediction** of electricity generated by wind farms or the prediction of the physical performance of a (top) athlete.



### Technology Status

TRL 5 : technology validation in relevant environment

### Preferred partnership

Collaborative projects

Development of the technology

**UCL**  
Université  
catholique  
de Louvain



INTERESTED TO COLLABORATE AND CO-DEVELOP THIS TECHNOLOGY ?

Please contact :

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