

# Summer School Assessment of Materials Stocks and Flows

16 - 18 September 2020  
Bordeaux, France



## In a nutshell...

The Summer School is organized within the PANORAMA project and focuses on metrics to assess material stocks and flows. This information is crucial to understand the resource efficiency of using materials in the context of circular economy.

## Organized by

université  
de BORDEAUX



Universiteit  
Leiden  
Institute of  
Environmental Sciences

## In collaboration with

KIC EIT Raw Materials labelled



International  
Doctoral  
School

## Goals of the Summer School



Improve understanding of the value chain of raw materials.



Learn about Material Flow Analysis (MFA) and Input-Output Analysis (IO) to support the transition to a circular economy.



Share the preliminary results and methodological findings of PANORAMA.



Support students on better communicating their research results.

## Practical information

### Applications

<https://cml.liacs.nl/panorama/edu/ss/>

### Deadline for application

July 27, 2020.

### Participation fee

Free of charge. Applicants will be responsible for their own travel and accommodation.

### Language

Classes are conducted in English.

### Location

University of Bordeaux and/or online considering potential restrictions due to COVID-19.



## A glance at **PANORAMA**

Physical AccouNts Of RAW MAterial stock and flow Information Service (PANORAMA) proposes to create an information service that maps the flows and stocks of materials.

Such an information system would allow for:

- Forecasting resource demand;
- Anticipating the amount of materials to be recycled in the future;
- Highlighting the economic implications of resource supply problems;
- Providing an understanding of the resource efficiency implications and the societal metabolism of products and materials within a circular economic system.

### More info

<https://cml.liacs.nl/panorama>

### Financed by



## Preliminary program Summer School **Assessment of Materials Stocks and Flows**

### Day 1 | September 16, 2020

General introduction of circularity and criticality assessments.

Basics of Material Flow Analysis (MFA) and Substance Flow Analysis (SFA).

Fundamentals of Environmentally extended, multi-regional input-output (EEMRIO) analysis.

Practical exercises on MFA and EEMRIO.

### Day 2 | September 17, 2020

Introduction to and balance of hybrid tables.

General presentation of PANORAMA.

Data harvesting and processing: Impacts/applications of preliminary results.

Social event in Bordeaux followed by a dinner.

### Day 3 | September 18, 2020

How to give an effective pitch on your project and ideas.

Improving communication of scientific results.

PhD careers inside and outside academia.

Round-table with graduated PhDs working in academia, policy-making and industry.

### Faculty

Prof. Guido Sonnemann  
[University of Bordeaux, France](#)

Prof. Thierry Toupance  
[University of Bordeaux, France](#)

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