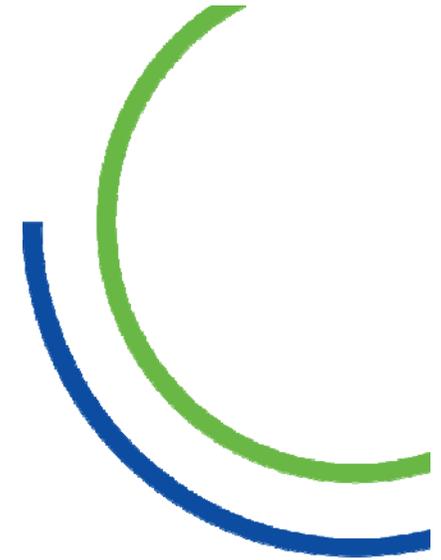


TravelEx – a travelling exhibition about the importance of raw material to a Wider Society

Learning and public awareness



Anne-Sylvie André-Mayer(1) (PI); José Kullberg(2); Patrik Fiferna(3) & Rodrigo Martins (2)

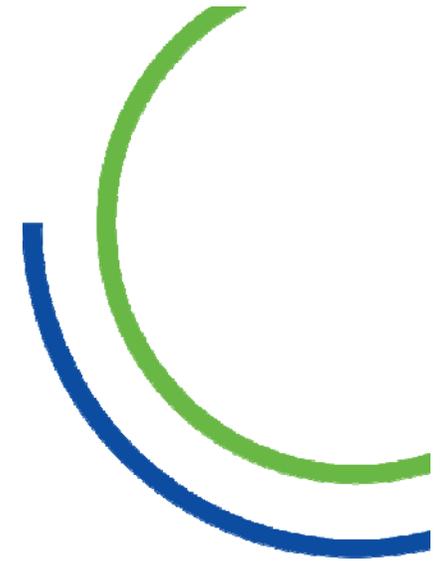
- (1) University of Lorraine,
- (2) FCT/New University of Lisbon
- (3) Czech Geological Survey



3rd PROMETIA Scientific Seminar, Berlim, 14th December 2016

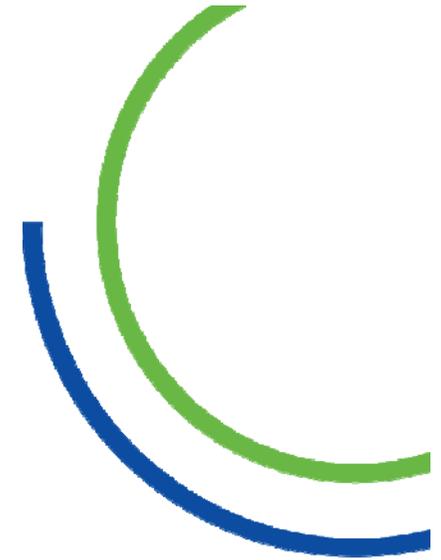
TravelEx - General information

General name:	<i>Underground resources travelling exhibition</i>
Type of activity:	Wider Society Learning
Approved:	Sept. 2016
Kick off:	Jan. 2017
Duration:	3 years as a KIC project (5 y)
Total Funding:	840 k€
Coodinator:	University of Lorraine (F)



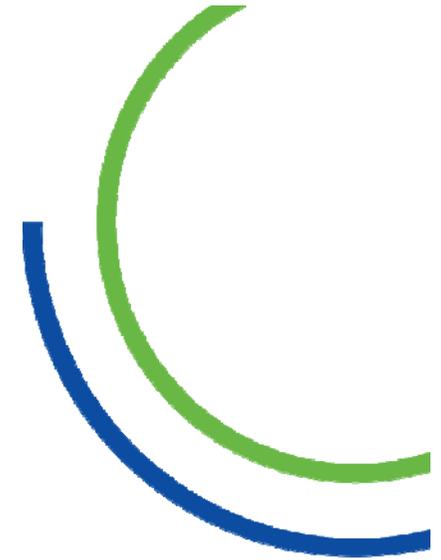
TravelEx – Main objectives

- To set up a travelling exhibition providing easily accessible and general information about the importance of raw material to wider society and children aged from 8 to 17 years old.
- To sensitize the youngest and the wider society for securing access to raw materials is essential, because recycling alone is not sufficient.



TravelEx – Main objectives

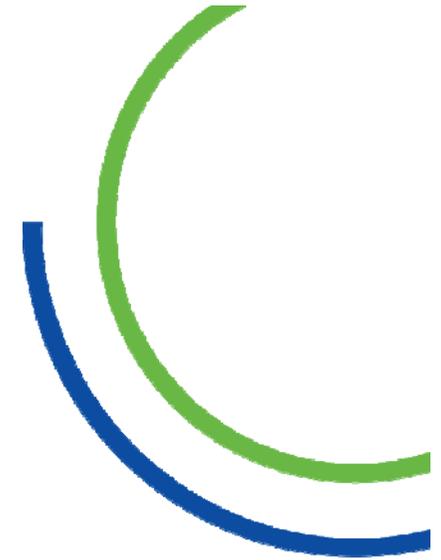
- to sensitize the youngest (8 to 17 years old) and the wider society to the importance of assuring an adequate supply of raw material
- to enlighten the debate and raise awareness among the society and encouraging children and young people cultivating positive attitudes among the mines.
- to stimulate new career interests and increase the number of engineers, nurture scientific vocations and develop scientific aptitudes.



TravelEx – Key deliverables

-The traveling exhibition it self, providing easily-accessible, with general information about the scientific and economic contexts of securing access to raw material;

-comprehensive description of the metal cycle (exploration - exploitation - treatment- recycling).



TravelEx – Key deliverables

-interactive participatory activities and workshops based on the following questions:

What is raw materials

What is it made for?

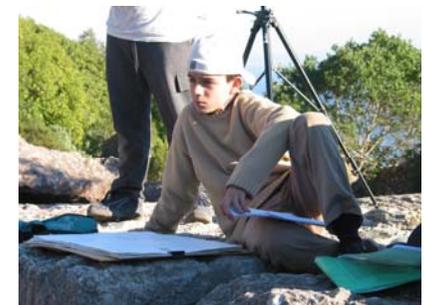
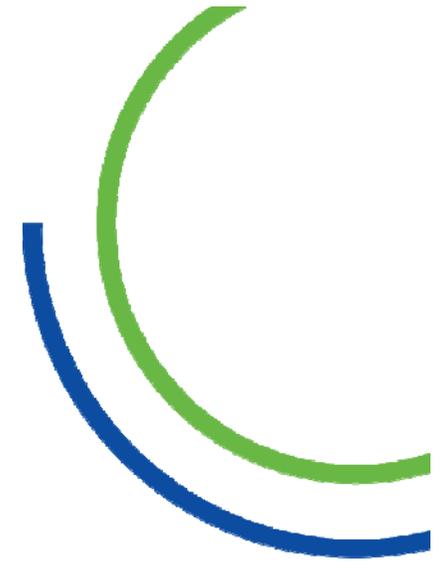
How is it formed?

Where can we find the resources?

Are our resources limitless?

What are they use in everyday life products?

What are the jobs depending on the availability of raw material



TravelEx

Underground resources travelling exhibition

This project will set up a 200 to 300m² travelling exhibition providing easily accessible and general information about mining and raw material in society.

5 countries



- 1 January 2017 - June 2018: **Exhibition Design**
- 2 July 2018: **Inauguration** ⇒ Euroscience Open Forum
- 3 August 2018 to
⇒ **Exhibitions in Europe**





WP1. Coordination and Management



Université de Lorraine

Exhibition design

WP2. 

Scientific content

Université de Lorraine



WP3. 

Pedagogical content

*FCT Universidade Nova
de Lisboa*



WP4. 

Scenography

*Estonian mining
Museum*



WP5. Communication



University of Oulu



TUT

WP6. Logistic and roaming plan



Tallin University of Technology



TravelEx

**Wider Society
Learning**

MA TERRE PREMIÈRE, POUR CONSTRUIRE DEMAIN

Une expo-manip sur la terre crue, matière première aux propriétés écologiques, économiques et esthétiques réelles et pourtant méconnues, du 6 octobre 2009 au 27 juin 2010, à la Cité des sciences et de l'industrie.



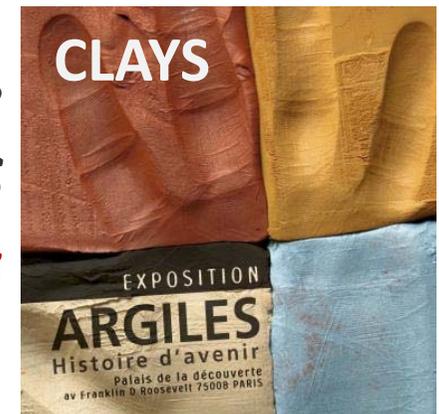
Cité des Sciences et de l'industrie
PARIS

1, 675 Millions visitors



Palais de la découverte
PARIS

682 000 visitors

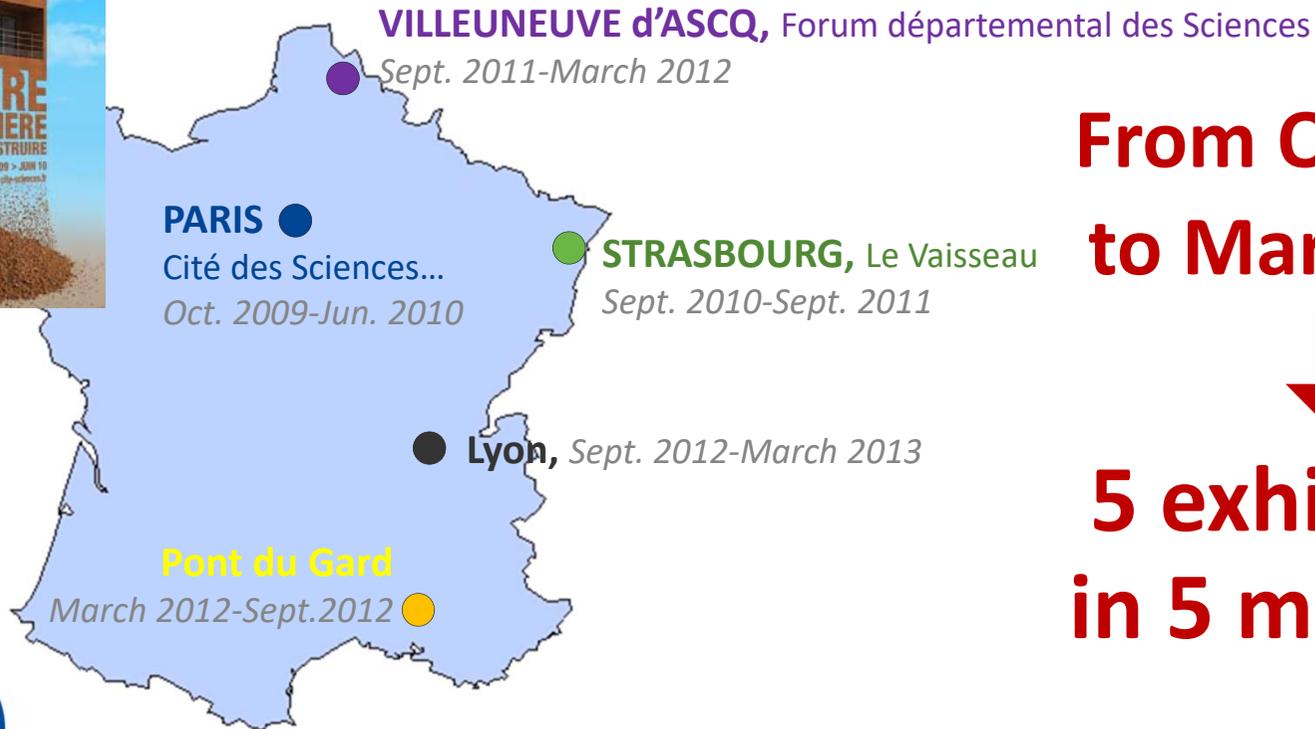


TravelEx partner involved: Université de Lorraine/ENSG



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**From Oct. 2009
to March 2013**

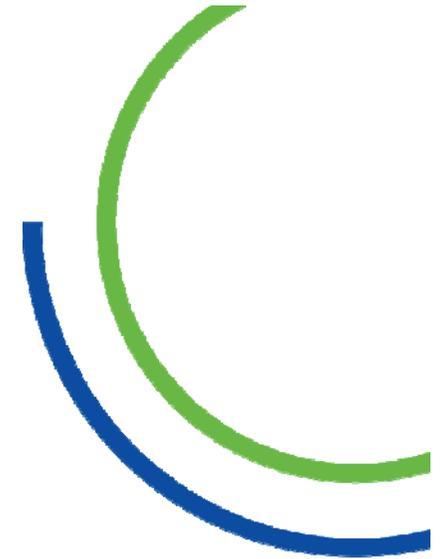


**5 exhibitions
in 5 museums**

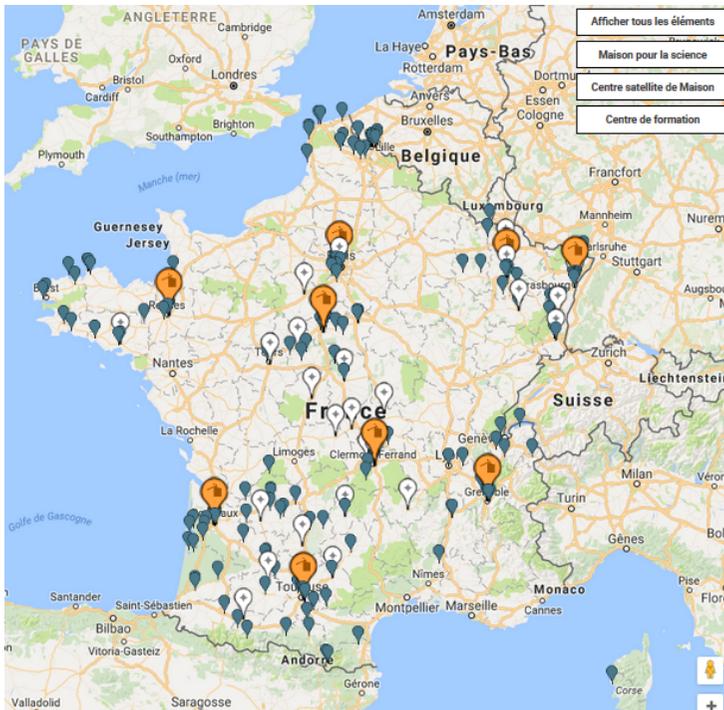


TravelEx partner involved: Université de Lorraine/ENSG





National and International network



Partenaires de la Maison



TravelEx partner involved: Université de Lorraine/ESPE



Hubert Curien Network

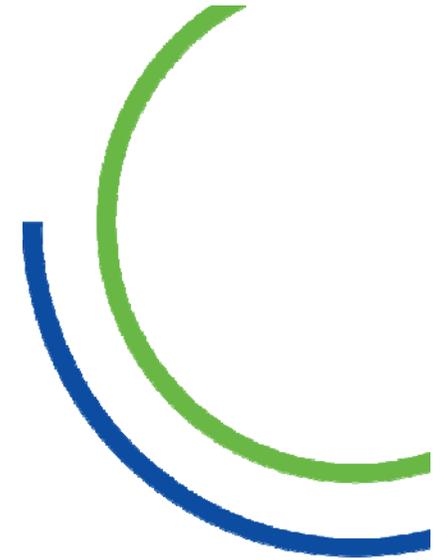
2005, 2012, 2015



TravelEx partner involved: Université de Lorraine



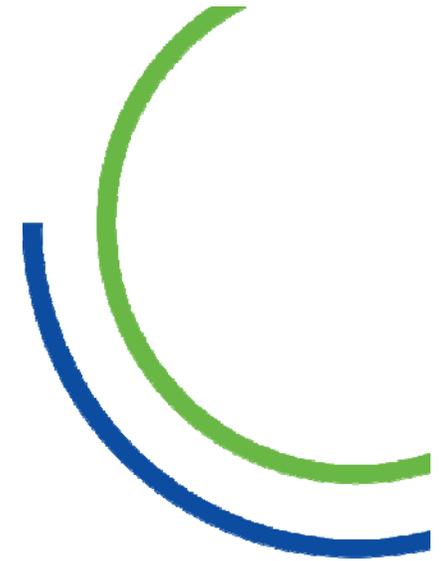
TravelEx



- **46 natural-scientific clubs focused on geology with the regular activity at elementary and grammar schools**
- **900 students**



TravelEx



- 30 workshops at schools
- 43 field trips and excursions in scientific institutions for children
- 24 field trips and excursions in scientific institutions for teachers of the elementary schools
- "Summer school" for teachers (one week)
- Study visit in London



TravelEx



- **13 sets of working materials for educational purposes**

working sheets, methodology for teachers,
manuals for fieldwork

Principal geological processes, Rocks and minerals,
Origin of life on the Earth, Natural hazards,
Geological development and structure,
Mineral resources, Soil and water,
The solar system and Earth,
Travelling from the centre of solar system ,
Groundwaters, Surface waters,
History of mining and The rocks



TravelEx



- **15 e-learning lessons**

Available on the World of Geology portal and can be downloaded free of charge

- **30 virtual laboratories**

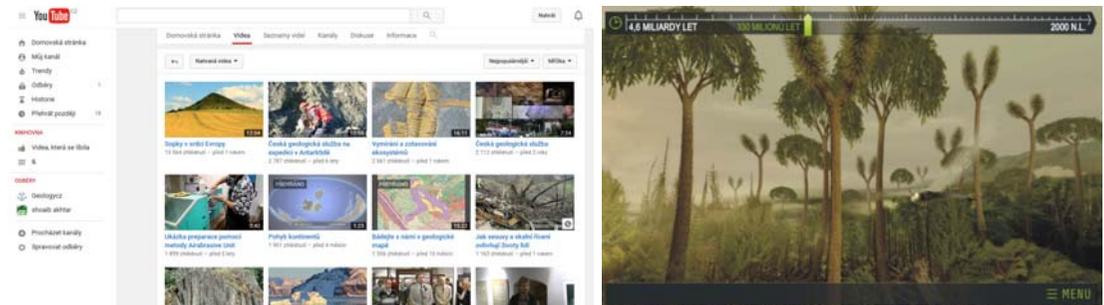
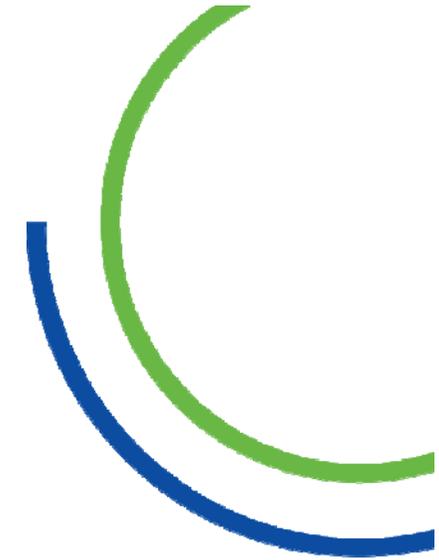
- **50 practical experiments**



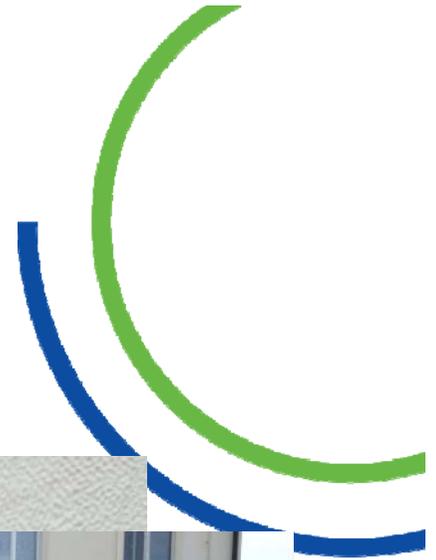
TravelEx



- 12 animations with geological past
- 19 films
- 56 excursion guides



TravelEx



TravelEx

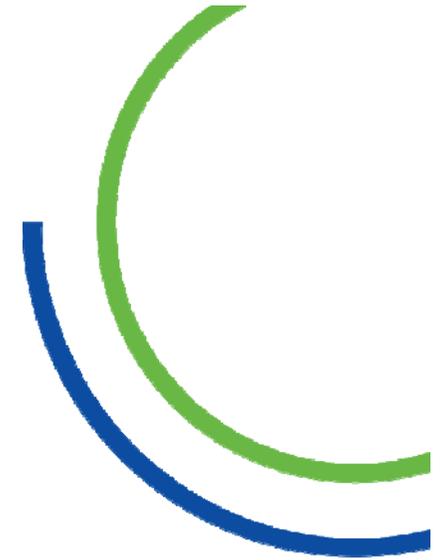


- The Didactic centre of geology
- **Portal World of Geology** (www.geology.cz/svet-geologie)

It encompasses a wealth of data related to the present-day knowledge of the Earth sciences presented in a popular form to children and teachers.



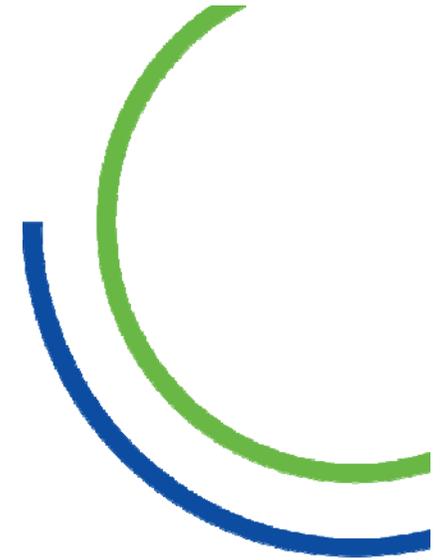
TravelEx



- More than 1000 students (10 to 17) received in our labs per year (hands-on learning)



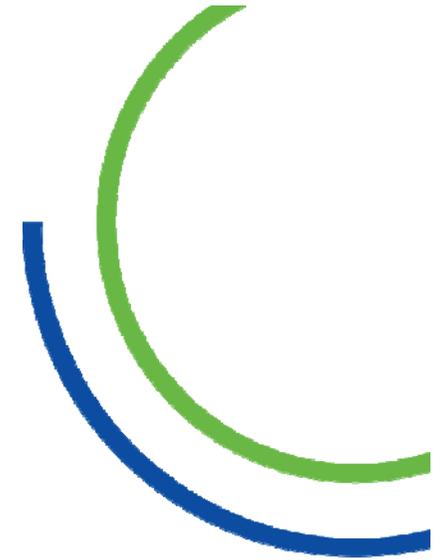
TravelEx



- ***Circa 10* credited courses for teachers (Life Long Learning)**
- **more than 20 laboratorial activities prepared to receive students from schools**
- **40 partnerships with schools**



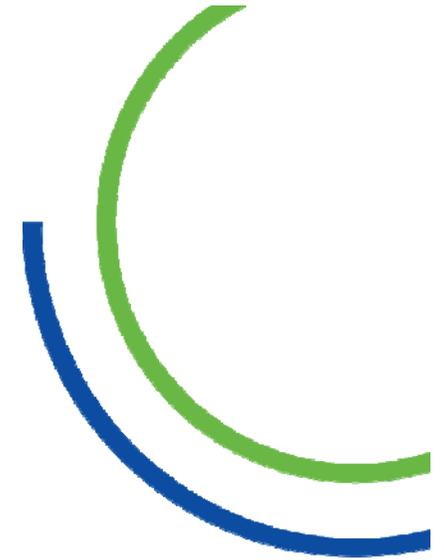
TravelEx



- More than 15 study visits to the field per year



TravelEx



- Promoting scientific activities for children and general folks within the scope of “Live Science Agency” (3 to 5 per year, for almost 20 years) (*e.g.*: “Geology in the Summer” and “Live Science in the Lab”)



TravelEx – Concluding remarks

- The usual lengths of this kind of exhibition is 5 years, aiming to achieve the required feedback and balance concerning the proposed objectives.

-As things are always changing a lot and very fast in this area we need to reassess the data after 3 years (figures, statistics, new discoveries, trends of the market, ...).

-The three first year will be covered by the KIC project and a business model will be established for an autonomous management of the partners.

