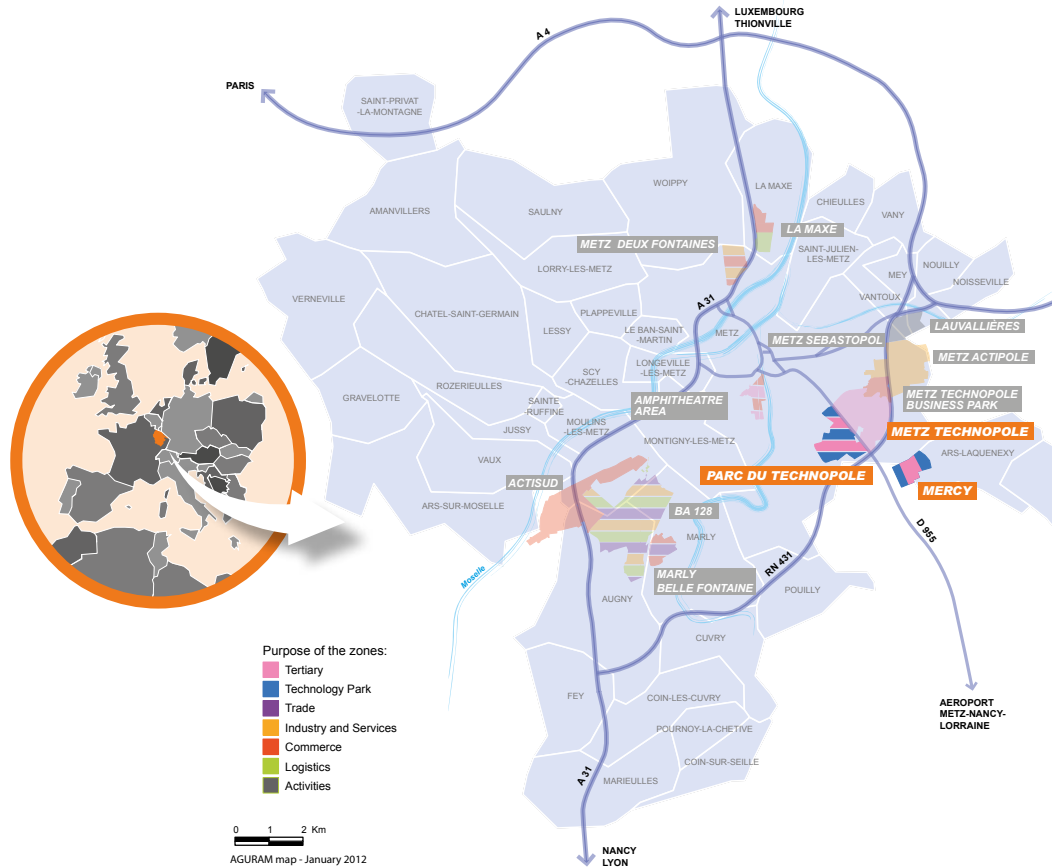


REAL ESTATE OPPORTUNITIES AT THE HEART OF METZ METROPOLE MATERIALS CAMPUS

METZ METROPOLE BUSINESS PARK



14,570 businesses make up the economic fabric Metz agglomeration, representing **106,000 jobs**. The proximity of the three borders with Germany, Luxembourg and Belgium promotes the establishment of businesses with international ambition.



Metz Métropole has developed two business parks to host innovative companies, small industries and research laboratories, closed to the Materials Campus:

- **The 60 ha Parc du Technopôle:** this site is an extension of the current Technopôle Science Park which represents over 300 companies, 4 000 employees and 4 500 students;
- **The 43 ha Mercy Health and Innovation cluster:** a tertiary activity area around the Mercy hospital and the centre for Women, Mothers and Children.



METZ METROPOLE HAS ESTABLISHED AN ORGANISATION FIT FOR A DYNAMIC URBAN DISTRICT

Its strategic tasks: studies and surveys, hosting and monitoring companies, innovation, promotion and communication.

Contact :

6 rue Lafayette - 57000 Metz (France) - Tél. : +33 (0)3 87 16 96 80 - Mail : contact@mm-dev.fr
www.metzmetropoledeveloppement.fr

Find out all the economic Metz Métropole news, sign up to the **MONTHLY newsletter "JEVEUXMETZ"**. Subscribe to: www.metzmetropoledeveloppement.fr

For more information on Metz Métropole Materials Campus:

Stéphane Poinot, Innovation project manager
Tél. : +33 (0)3 87 16 96 86 - spoinot@mm-dev.fr



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71 AVANCE - 01/2014



METZ MÉTROPOLE

CAMPUS FOR MATERIALS SCIENCES AND ENGINEERING

- 5 TOP ENGINEERING SCHOOLS
- 9 PUBLIC AND PRIVATE RESEARCH LABORATORIES
- 3 CENTRES FOR TECHNOLOGY TRANSFER TO INDUSTRY
- UNIVERSITY OF LORRAINE

AN ECOSYSTEM CONDUCTIVE TO SUCCESSFUL INDUSTRIAL PROJECTS

AN EXCEPTIONAL CONCENTRATION OF MATERIALS EXPERTISE

The IRT-M2P (Metallurgy and Materials Research Institute), the Lafayette Institute and CEA Tech located in Metz Metropole, working together with industrial groups, high-tech research laboratories and a higher education emphasize the development and vitality of the area. The aim is to create an innovation ecosystem in the fields of Materials and Energy, in order to support successful industrial projects.

Structural and smart materials make a significant contribution to employment and GDP in Lorraine Region. They represent a highly diverse and strongly multidisciplinary area, with links to numerous industrial sectors such as aerospace, energy, construction, automotive, aeronautic, medical devices, telecommunication, security and defence.

They comprise a number of classes such as metals (ferrous and non-ferrous), composites (eg. ceramic, metal and polymer matrix), construction materials (eg. glass, concrete, steel, ceramics), optoelectronics materials and others such as structural & refractory ceramics and polymers.

Whilst the range of materials may be diverse, many common technical challenges have been identified: raw materials scarcity, energy costs rising, weight reduction, performance improvement of existing materials, environmental footprint reduction, advanced function integration.

INDUSTRIAL CONNECTIONS

Major groups operate in the region, such as PSA Peugeot Citroën, Safran, Smart, Thyssenkrupp, GeneralElectric, Viessmann, Arkema, Total Petrochemicals, ArcelorMittal, Esterline, Saint Gobain Pam, ACM (ABS Research Centre), etc. Local industrial groups have developed strong expertise in the raw materials preparation, heat treatment, forming, machining, surface treatment, assembly and characterisation of materials.

A QUALIFIED INDUSTRIAL WORKFORCE

From initial to vocational training, Metz Metropole district produces motivated employees in all industry professions. Vocational colleges, training centre for industry apprentices, higher education train young people aged 16 to 25 in the fields of manufacturing, maintenance, electrical engineering and metallic structures.

A FOCUS ON INNOVATION AT METZ METROPOLE MATERIALS CAMPUS



FOSTERING NEW SYNERGIES

By concentrating activities on a dedicated campus located within a 500 metre radius, Metz Metropole district creates new synergies, supports the match-making process between researchers and industrials. It contributes to the creation of unprecedented competitiveness in the history of its region.



Techno-dating between companies and students during Industry Week

MECHANICAL MATERIALS PROCESSES

MECHANICAL ENGINEERING, INDUSTRIAL AND PRODUCTION QUALIFICATIONS:

Arts et Métiers ParisTech

ENIM - Metz National School of Engineering

ESITC - Higher School of Engineering for Building and Public Works

IUT Physical Measurements

Institute of Physical Chemistry and Materials
University of Lorraine

RESEARCH

LEM3 - Microstructures and Material Mechanics

LCFC - Design, Manufacturing and Control

LABPS - Biomechanics, Polymer and Structures Mechanics

LGIPM - Industrial Engineering and Mechanical Production

LCP-A2MC - Chemistry and Physics - Multi-level approach to Complex Environments

The **Materialia** business cluster and the **IRT-M2P** provide an interface with the world of industry. The company **ACM**, a subsidiary of the Italian company **ABS** (Bertoli-Safau Steelworks), has chosen to locate its research centre on campus in order to reap the benefits of this environment of collaboration and excellence.

TRANSFER

IRT-M2P

Metallurgy and Materials Research Institute is a joint research centre between industrial and academic actors which pools human resources and pilot equipment. Main research areas include raw materials preparation, heat treatment, forming, characterisation and assembly of materials. IRT-M2P works mainly in the field of pre-industrial research, in order to ease innovation transfer "from Science to Industry" through research as well as training.



The IRT-M2P was launched in 2013. Around 30 industrial groups have committed over €2 million euros over 3 years to start 12 projects.

This initiative is due to university and higher education collaboration from Metz-Technopôle Science Park. This will help to create a competitive and efficient materials campus.



François MUDRY

President of the IRT-M2P

ADVANCED MATERIALS AND KEY ENABLING TECHNOLOGIES

TRAINING IN ELECTRICAL, ENERGY AND SYSTEMS ENGINEERING

Supélec

Georgia Tech Lorraine

Higher Institute of Electronics and Automation

RESEARCH

UMI GT-CNRS - Opto-electronics, photonics, thin film deposition, secure networks

LMOPS - Optical Materials, Photonics and Systems

Transfer to industry is provided by the **Lafayette Institute** and **CEA-Tech**. These skills have most notably attracted the attention of **PSA Peugeot Citroën**, which has set up one of its **Open-Labs** on the materials campus at Metz Métropole.

TRANSFER

LAFAYETTE INSTITUTE AND CEA TECH LORRAINE

LAFAYETTE Institute

"Lafayette Institute" will create a favorable environment for high tech service to industry, applied R&D, and spin-off companies in the optoelectronic sector. Potential applications of these new technologies will appear mainly in the energy sector, new display technologies, sensors and medical technology, and green economy. The Lafayette Institute will promote technology transfer from GeorgiaTech Lorraine's research laboratories and transatlantic industrial R&D opportunities in the optoelectronic sector.

CEA Tech Lorraine

CEA Tech develops Key Enabling Technologies of interest to all industries and all types and sizes of businesses, from major multinational corporations to SMBs and start-ups. These technologies are protected by patents held by the CEA, the world's leading filer of international patents. CEA Tech is building on CEA Leti, List, Liten's successful track record innovating for industry.



3D View of Institut Lafayette

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IRT-M2P