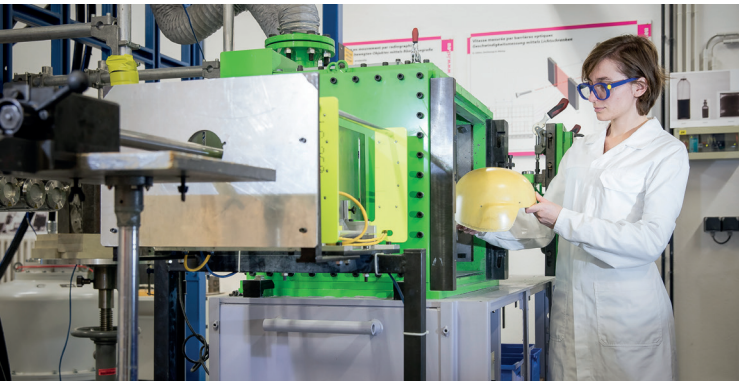


## SCIENTIFIC PLATFORMS (SELECTION)

- **Wind tunnels and shock tubes**  
Trisonic wind tunnel (0.4 to 16 Mach)
- **Material processing and characterisation**  
Spark Plasma Sintering (SPS), Hopkinson bar, Hot Isostatic Pressing (HIP), Nanocrystallisation (SFE)
- **Proving ground and instrumented free-flight range**  
Ballistic, detonac, acoustic, electronic testing devices
- **Laser-matter interaction platforms**  
Terminal laser efficiency
- **ISO class 5 cleanroom**  
Design of very high power components
- **Electronic testing at extreme accelerations**  
Soft InBore REcovery Facility (SIBREF)
- **High-performance computing cluster**  
Modelling and simulation
- **In-house capability for prototyping**  
Conception and realisation of prototypes



## JOINT LABORATORIES

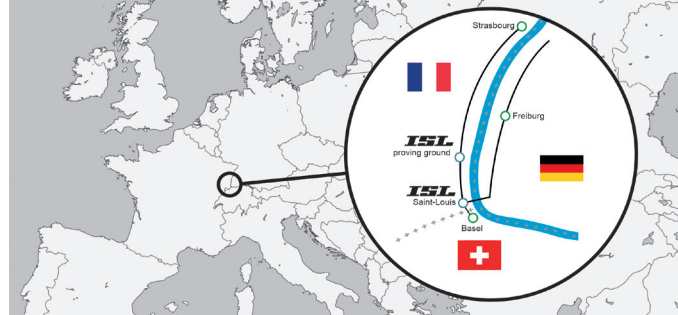


ISL - founding member of "Institut Carnot MICA"



ISL - CNRS - UNISTRA, UMR 3208

## WELCOME TO ISL



### By plane

Basel-Mulhouse Airport is situated at 5 minutes from ISL. A shuttle bus service connects the airport to the Saint-Louis railway station (Bus line 11, timetable on <https://www.distribus.com>)

### By train

The Saint-Louis railway station is at a 5-minute walking distance from ISL (TGV to Mulhouse or Basel).

### By car

French A35 motorway Mulhouse-Basel, exit Saint-Louis. German A5 motorway Karlsruhe-Basel, exit Weil am Rhein.

**Access to ISL can only be granted upon former registration and authorisation. Please contact us in advance.**

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## French-German Research Institute of Saint-Louis



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## ISL – FRENCH-GERMAN RESEARCH INSTITUTE OF SAINT-LOUIS

ISL is a binational research institute, jointly operated by the French Agency of Defence Innovation (AID) and the German Ministry of Defence.

### ISL'S MISSION

To create cost-effective technologies for use by the armed forces in the toughest areas of military confrontation, namely:

- **Soldier protection:**
  - **Detection** of adverse weapons
  - **Reduction** of the effects of adverse weapons
  - **Protection** of soldiers and vehicles from the residual effects of adverse weapons
- **Target delivery of destructive (in some cases disturbing) energy:**
  - With precision (in order to minimise collateral damage)
  - At long distance (in order to protect the armed forces)

### “FRONT-LINE RESEARCH” FROM TRL 1 TO TRL 6

Based on a multi-disciplinary approach, unique in Europe, ISL develops technologies in response to five scientific challenges.

### 400 EMPLOYEES WITH EXCEPTIONAL EXPERTISE

Composed of 60% researchers and engineers and around 40 PhD students, ISL's scientific teams are young and equipped with state-of-the-art technology. They are active members of an extensive academic network. In direct contact with operational forces on the ground, they are recognised for their innovative experience upstream from industry and in co-development with it.

## FIVE SCIENTIFIC CHALLENGES

