

IMPULSION 2020

DEDICATED TO RESEARCH INTO INDUSTRIAL SAFETY



The Foundation for industrial safety culture is renewing its commitment to the development of research into safety, with the support of EDF, ENGIE and TOTAL.

The Foundation for industrial safety culture (Foncsi) is a well-known public research foundation that aims to support and fund interdisciplinary research projects into risk, and the human and organizational factors of safety.

The Foundation has already added to the corpus of knowledge, and industry has benefited from the transfer of the results of its research. In this new phase, Foncsi aims to continue to contribute to progress in industrial safety in ways that are useful for all of its stakeholders: governments, associations, communities, researchers, industrialists, unions, etc.

10 years after its creation, the Foundation is giving a new 'impulse' to industrial safety research. Thanks to support from EDF, ENGIE and TOTAL this new programme will run until 2020.



'Impulsion 2020' is the name we have given to this new scientific initiative, which will drive Foncsi's work over the next five years. This is a whole new beginning for the Foundation: there is new funding, new research methods in industrial safety and new governance bodies. These developments mark a real turning point in the history of Foncsi.

Foncsi is 10 years old. In that time there have been many outstanding scientific achievements, which made it possible for us to seek further financing necessary for the continuation of our work.

EDF, ENGIE and TOTAL were the first to respond to our call. We are very grateful for their contribution that has enabled the Foundation to commit to a further five years of industrial safety research.

This brochure has been put together to show you how Foncsi, guided by its requirement to act in the public interest, intends to continue its research and how it will ensure that the results of its work are transferred to industry. It highlights both the new aspects of our work, and how it is a logical extension of the progress that has already been made. Foncsi is a very special kind of organization, where innovation and the need to respond to the preoccupations of society have equal priority. Our goal of advancing industrial safety for the benefit of all our stakeholders has not changed - but our resources are changing (thanks to our funding partners) - and we are becoming more efficient!

I would like to invite you to discover more about 'Impulsion 2020'.

René Amalberti,
Director of Foncsi



2015: HOW FAR HAVE WE COME?

For the past 10 years, Foncsi has taken a forward-looking, innovative approach to the dissemination of knowledge in industrial safety.

In 2005, an initial allocation of €6.6 million (50% private and 50% public funds) enabled the creation of Foncsi as a research foundation with a mandate to act in the public interest. This made it possible for the Institute for industrial safety culture (Icsi) to broaden the scope of its research into industrial safety.

For the past 10 years, Foncsi has been active in high-quality, innovative research into industrial safety. A particular feature of its work is to initiate debate about sensitive social issues and translate the results into research questions.

Research has focused on six axes:

- Learning from experience
- Arbitration
- The vulnerability of organizations
- Decision-making under uncertainty
- Negotiation
- Safety values

The Foundation's scientific expertise and the relevance of its research have been recognized by the European Commission. In 2012, Foncsi participated in the SafEra project as an organizing member and the Foundation funded several scientific projects.

IN 10 YEARS:

- 6 research programs
- 1 European project (SafEra)



THE FRUITS OF 10 YEARS OF RESEARCH

Over the past 10 years Foncsi has funded nearly 50 research teams (both French and international), resulting in over 180 scientific publications, various books, and the organization of seminars and conferences, etc.

The fruit of this research can be seen in a series of reports created by Foncsi, known as the *Cahiers de la sécurité industrielle* Collection (Industrial Safety Reports). The Collection is becoming increasingly well known among scientists, industrialists, communities and associations.

The *Cahiers de la sécurité industrielle* consist of more than 60 reports. Most are published in French and English, but there are also some in Spanish, Portuguese and Italian.

A COMMUNITY OF RISK RESEARCHERS

Extending research into industrial safety also involves promoting the work of the research community, who come from a wide variety of backgrounds and disciplines.

Foncsi is working to identify, collate, contact and connect these researchers. This pluridisciplinary research network, which covers human and social sciences, economics, management, law, and engineering sciences, consists of more than 200 researchers.

Two publications produced by Foncsi provide a way for the community to discuss and share their knowledge:

- The *Tribunes de la sécurité industrielle* (Industrial Safety Tribunes);
- and The *Regards sur la sécurité industrielle* (Focus on Industrial Safety).

HIGH-QUALITY PUBLICATIONS:

- 3 Collections
- 60 *Cahiers de la sécurité industrielle*
- 180 scientific publications

IMPULSION 2020: THE RESEARCH OF THE FUTURE

During this new five-year programme, Foncsi will broaden and deepen its examination of topics that address the themes of research excellence. The Foundation will continue its work with industry and all of its other stakeholders in order to improve safety on an ongoing basis.

STIMULATING THE DEBATE ON ISSUES THAT CONCERN SOCIETY

One of Foncsi's commitments for the next five years is to extend its work on the themes that concern society, and carry out relevant research that is consistent with actual needs on the ground.

The Foundation benefits from its close relationship with Icsi, which has a wide diversity of members who contribute to discussion groups.

- Two discussion groups are led by Foncsi:
- The relationship between supervisory authorities and industry, and between branches and subsidiaries
 - Shared safety models in decentralized organizations and with contractors

These discussion groups provide an opportunity for representatives of all stakeholders to meet and discuss these new topics. Foncsi consolidates the results of these debates and translates them into research questions.



A DEBATE THAT INCLUDES ALL STAKEHOLDERS:

- Administrations
- Associations
- Communities
- Researchers
- Industrialists
- Unions
- etc.

NEW THEMES FOR RESEARCH EXCELLENCE

Between now and 2020, three research axes have been identified that reflect the concerns of industry and society:

- The construction of industrial safety by actors within the company
- External links to industrial activities in the construction of safety
- 'HOF engineering' as a way to improve safety culture

To develop these new lines of research, Foncsi will draw upon the expertise of the best international experts in order to produce results that lead to a significant improvements in safety. The Foundation will carry out strategic analyses and launch calls for proposals centred on these research areas.

These research areas have been identified by the Foundation, and have to date received very little attention from academia or other research institutions.



NEW WAYS OF DOING RESEARCH SUITED TO THE NEEDS OF SOCIETY

In the past Foncsi has played a dynamic role in coordinating academic research and this will continue under the 'Impulsion 2020' initiative. So far the Foundation has focused on calls for scientific proposals, now a new approach will be added: strategic analyses.

RAPID RESULTS FROM WORKING WITH THE WORLD'S TOP EXPERTS

Strategic analyses are a short-term research method that extends over 18 months. The first step is to make an initial assessment of current research in collaboration with the world's top experts. Next, we examine how far the industry has succeeded in appropriating the results of this research. Finally, we establish how results can be efficiently and effectively translated into actions on the ground.

The Foundation will work closely with Icsi in carrying out these strategic analyses that will provide a continuum of innovation between research and industry.

Between now and 2020, Foncsi has committed itself to conducting four strategic analyses on the following themes:

- Professionalization and industrial safety
- Safety culture and safety theory
- HOF methods, tools and practical approaches
- Industrial organizations and their evolution

STRATEGIC ANALYSIS TOOLS:

- High-level research seminars
- Publication of an academic text
- Research/industry seminars
- A *Cahier de la sécurité industrielle*



CALL FOR SCIENTIFIC PROPOSALS FOR EXTENDED RESEARCH

Alongside strategic analyses, Foncsi will launch calls for scientific proposals.

This type of long-term research, which extends over three years, is the perfect complement to the Foundation's other work.

Preceded by a strategic analysis or a discussion group, calls for proposals are an effective way to extend research, investigate questions in more depth and carry out applied research through CIFRE theses.

Calls for proposals relate to the following themes:

- Professionalization and industrial safety
- Shared safety models in decentralized organizations and with contractors



APPLIED RESEARCH:

- 2 calls for scientific proposals
- CIFRE theses
- Access to the field through Icsi

A CONTINUUM BETWEEN INDUSTRY AND INNOVATION

GREATER TRANSFER TO INDUSTRY: EVEN MORE R&D WITH ICSI!

Working with Icsi, the Foundation will ensure the transfer of research to industry through the appointment of 'pilots' who will help industrialists to appropriate the results of research.

Under the 'Impulsion 2020' programme, Foncsi and Icsi teams will work together from the start of research projects to foster the emergence of tools that can be used and deployed in industry. This will help to ensure a continuum between innovation and transfer, and ensure that our research bears fruit in the field.

This will take the form of new training modules, specific support projects, practical guides, etc.

ICSI

A non-profit organization, Icsi was created in 2003 as the result of a joint initiative by industrialists, academics, researchers and local authorities. The Institute's mission is to:

- improve safety in business by taking into account all aspects of industrial risk;
- foster an open and friendly debate between hazardous industries and civil society;
- raise the awareness of all stakeholders in society to the problems of risk and safety.



HOW DOES IT WORK?

New governance mechanisms have been put in place: Foncsi's Executive Board now has a more decisive role in ensuring the innovation continuum between research and industry, and new scientific bodies have been put in place to drive research projects.

THE EXECUTIVE BOARD: INDUSTRIALISTS MOTIVATED BY RESEARCH

Three companies, EDF, ENGIE and TOTAL have committed to a partnership with Foncsi that will run until 2020. The partnership will focus on industrial safety research and financing is in the order of €1.8 million.

Together with ARKEMA (one of founding members of Foncsi) the four companies will sit on the Foncsi Executive Board, alongside CNRS, the *Conseil régional Midi-Pyrénées*, the *Institut national polytechnique de Toulouse* and *Toulouse Métropole*.

As Foncsi is a public company, a government representative will attend Executive Board meetings.

The President of the Board is Mr. André-Claude Lacoste and the Vice Presidency will be held by an industrialist.

THREE NEW SCIENTIFIC BODIES FOR NEW RESEARCH METHODS

The Executive Board's Research Committee is Foncsi's new, principal scientific body. Two operational subgroups will be established to support research. They will be responsible for strategic analyses and calls for scientific proposals respectively.



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