ITER Industry Dayl December 2017

Speech by Mrs Frédérique VIDAL, Minister of Higher Education, Research and Innovation

Honourable Commissioner Ariannete,

Ladies and gentlemen, members of the Europearhament,

Your excellencies,

Ladies and entlemen, representatives of industry

Ladies and gentlemen,

I would first like to thank the European Commission and yourself, Commissioner Cañete, for your support of the ITER project and the organisation of this event focusing on the industrial impact of ITER.

The ITER project is unique in many ways.

It is unique from the perspectivethe

to be held according

š } š Z & Œ v Z W Œ •n 12 5 e en 5 p 2017 in Paris to mark the historic Paris

Agreement concluded two years agreel show- and this point must be stressed that our 'HDä1 #Q!1

- with ITER being the

flagship- have a twefold advantage. On the one hand, they remind us that we must invest with a longterm perspective in ordeto surpassthe frontiers of knowledge and technology. On the other, they instil a degree of stability of thusact to promote peace through the international cooperation they create

Æ France is host to several large scientific instruments, such as the Laue Langevin Institute (ILL), the ESRF synchrotron, the National Large Heavy Ion Accelerator

we need to go beyond the limits of

technology to push the boundaries of science further hese ambitious scientific adventures driveinnovation and allow European industry to move forward and become even more competitive in the international arena. They also allow us to apply

the resulting technologies in other scientific fields. For example, medical imaging techniques using nuclear magnetic resonance (NMR) benefit from progress made by the CERN's LærgHadron Collider (LHQ)/hereasthe quest for the Higgs boson

v (] š š (Œ) u Z E [• supeticonducting magnets and cryogenics. The ITER project is already producing nascent technological breakthroughs in robotics, materials, nordestructive testing, etc. There is no doubt these breakthroughs will have multiple uses not only in science but in society in general, far beyond the scope of fusionenergy

Æ The CERN's role to serve peace is well known beyond these walls. Our leaders' firm intention to bring the cold war to an end helped reach the decision to go forward with the ITER project. Major international collaboration EER being the large involving 35 countries, representing 85% of the world's GDP and more than 50% of the world's population - allow the scientists and engineerstaking part to live a unique human experience and to to the total the diverse cultures of countrities are participating

Last of all, ITER is an industrial project of unprecedented proportions in terms **strian**du firsts." Expected to operate for 35 years with a possible dar extension, the broad range of highly innovative technologies implemented in ITER, not to mention the size and the number of components to manufacture and assemblall represent a unque opportunity for businesses on two levels opportunity to build strategic alliances thin the framework of lasting partnerships and to develop standards shared by valhaking it possible tothen confront the global marketom a reinforced position

ITER is therefore a scientific undertaking, a societal endeamoduan industrial project.

France provides strong backing for the ITER project.

The newmanagemented by Bernard BIGOT has deftly managed to put the project back on track.

The schedule for the new 'Reference Baselidehtifies the fastest possible solution to completion, with the first hydrogen plasma programmed for 2025 and the first deuterium tritium plasma for 2035. Gradually ramping up the rational phase of this extaordinarily complex machine resembles the approach used by CERN when it commissioned and ramped up the operation of its LHC accelerator, for which we were able to appreciate the benefits.

Ten years after the creation **the ITER** Organization and **the** propean domestic agency, Fusion for Energy (F4E), the **TER** Council which recently need confirmed the fact that the ITER projects now durably on track. Since 2016, the 26 project milestones defined by the ITERCouncil have been met in complian with the project's overall schedule in the few cases where some delay was anticipated in meeting a milestone, compensatory measures were taken to comply with the schedule leading to the first plasma in 2025.

The 10-year anniversary of Fusion of Energyesjime the opportunity to highlight this great joint European adventure centred on ITER and F4E. This project mobilises all the member countries of Euratom whose efforts I would like to commend, through Dominique Ristori and Gerassimos Thomass well a Switzerland which has been involved from the very start. The twenty member states of Euratom and Switzerland are providing the ITER project with extremely cuttingedge components.

France would like to thank the European Commission for its steadfastrisupptibe ITER project. It also that hopes theouncil of the European Union will approve the Commission

The OMEGA consortium between Engie and the MW Group (Germany and the UK) which has secured the contract to supply the ABV mechanical and electrical equipment for these buildings

ITER is now entering a critical phase, in which all the various systems and components will be assembled and integrated into the machine

It is vital to the success of the project that ITER of $A \ v \ \mu \ E \ w \ [\bullet \] v \ \mu \bullet \check{s} \ E \] o \ E \ o o \ v \ expertise in this decisive phase. I strongly urge all companies involved, particularly French companies, to take this opportunity to develop new Europoide partnerships.$

This integration phase will also p