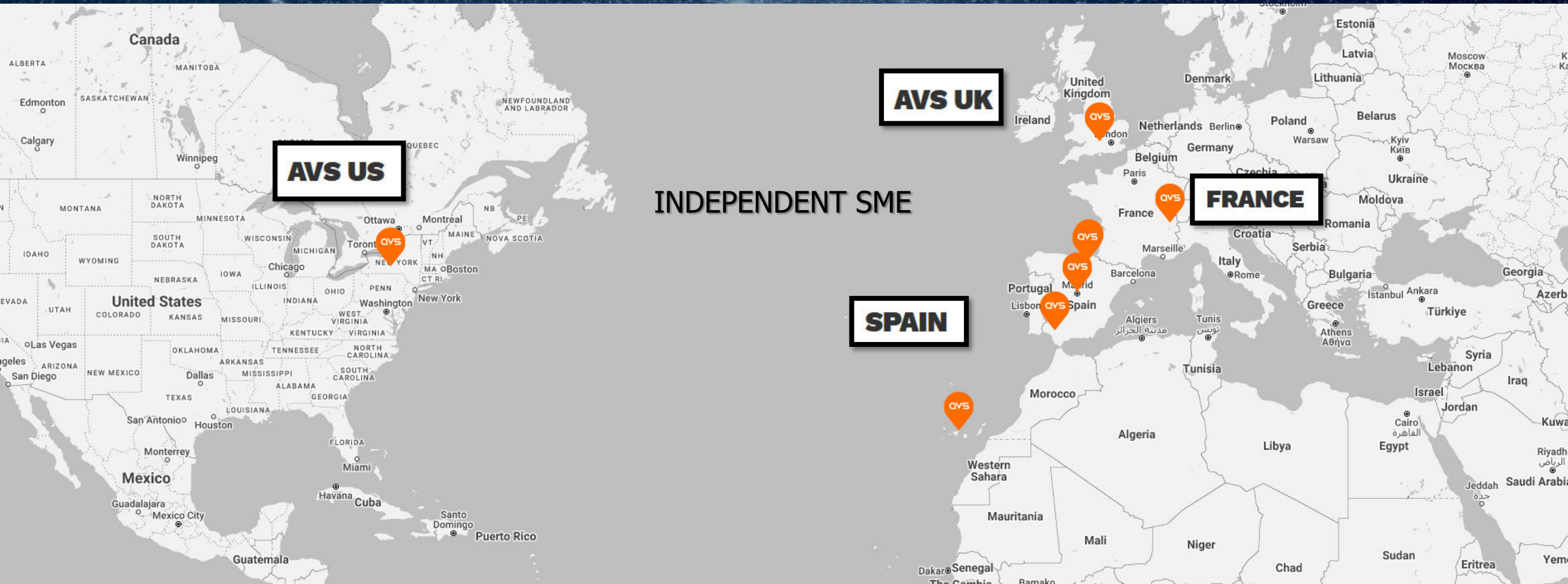




BOOSTING
SCIENTIFIC
KNOWLEDGE

QVS



ABOUT US

SET-UP IN 2006

HIGHLY QUALIFIED PERSONNEL
(80% MSc, MEngs and PhDs)

TÜV CERTIFICATES
ISO 9001
EN 9100

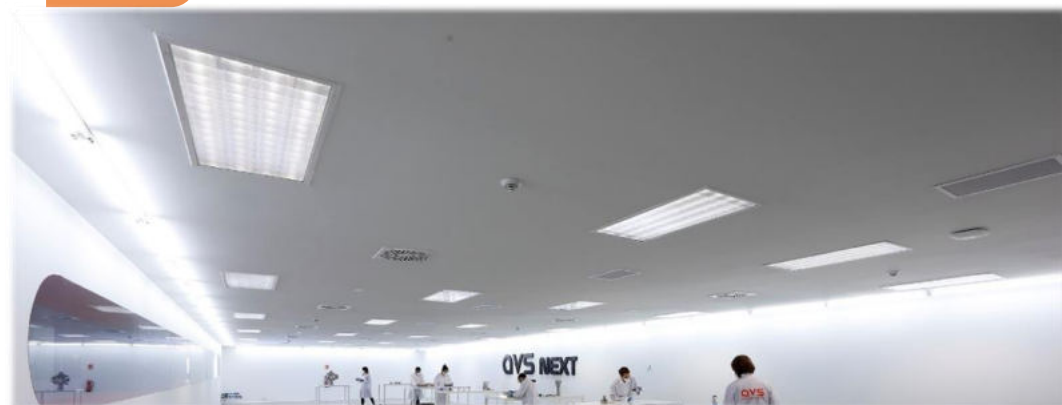
+10.000 m² FACILITIES

MODELLING DETAILED-DESIGN ANALYSIS PROCUREMENT MANUFACTURING ASSEMBLY INTEGRATION TEST

From concept
to commissioning

"OUR SUCCESS
OUR PEOPLE"

NEW SINGULAR FACILITIES



RETOS – en nuestro ADN

ASTROPHYSICS

ACCELERATORS

FUSION

SYNCHROTRONS

NEUTRONS

LASERS

SPACE



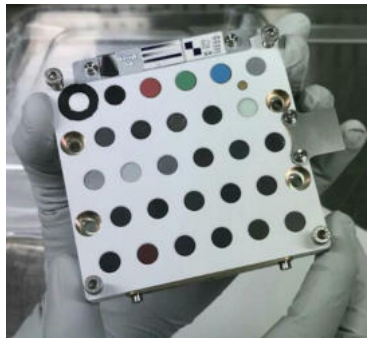
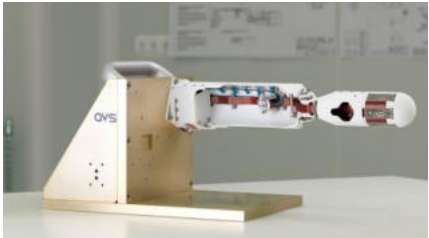
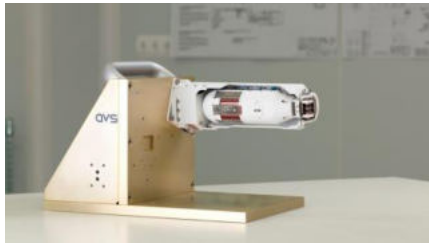
ISO
9001

EN
9100

QVS

QVS | SPACE



MEDA:**MARS ENVIRONMENTAL
DYNAMICS ANALYZER:**
Wind Sensor Mechanisms**SUPERCAM****Jet Propulsion Laboratory**
California Institute of Technology

VS

ASTROPHYSICS

SYNCHROTRONS

NEUTRONS

LASERS

SPACE

ACCELERATORS

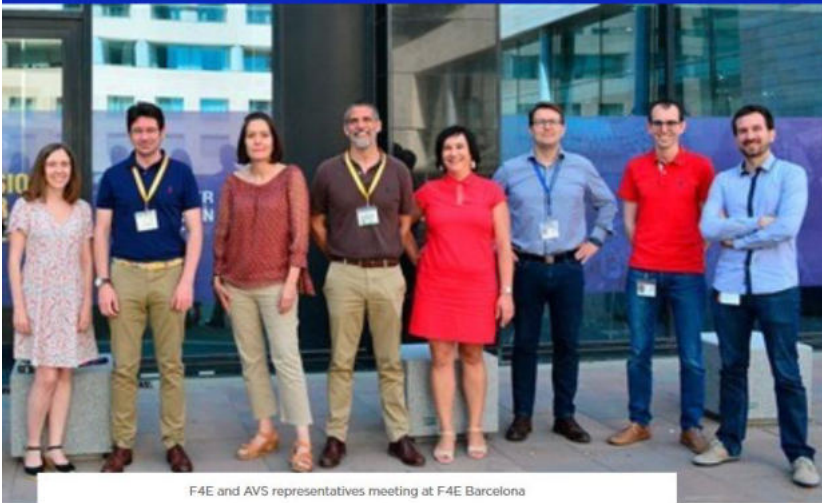
FUSION

The logo for QVS FUSION is centered in the image. It consists of the text "QVS" in white, followed by a vertical orange bar, and then the word "FUSION" in white. The text is set against a dark blue rectangular background. The entire image has a background of glowing, concentric, elliptical lines in shades of blue and purple, resembling a stylized representation of a fusion reactor or a particle accelerator's cross-section.

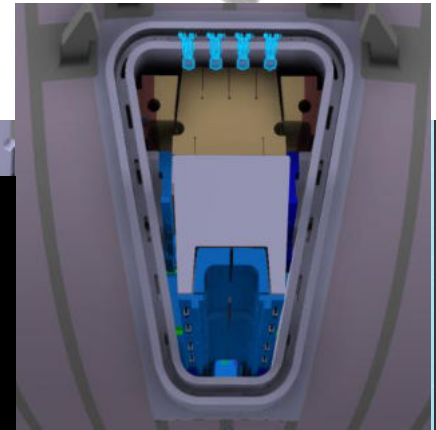
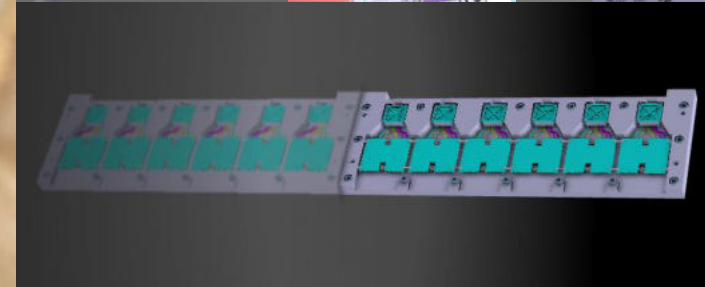
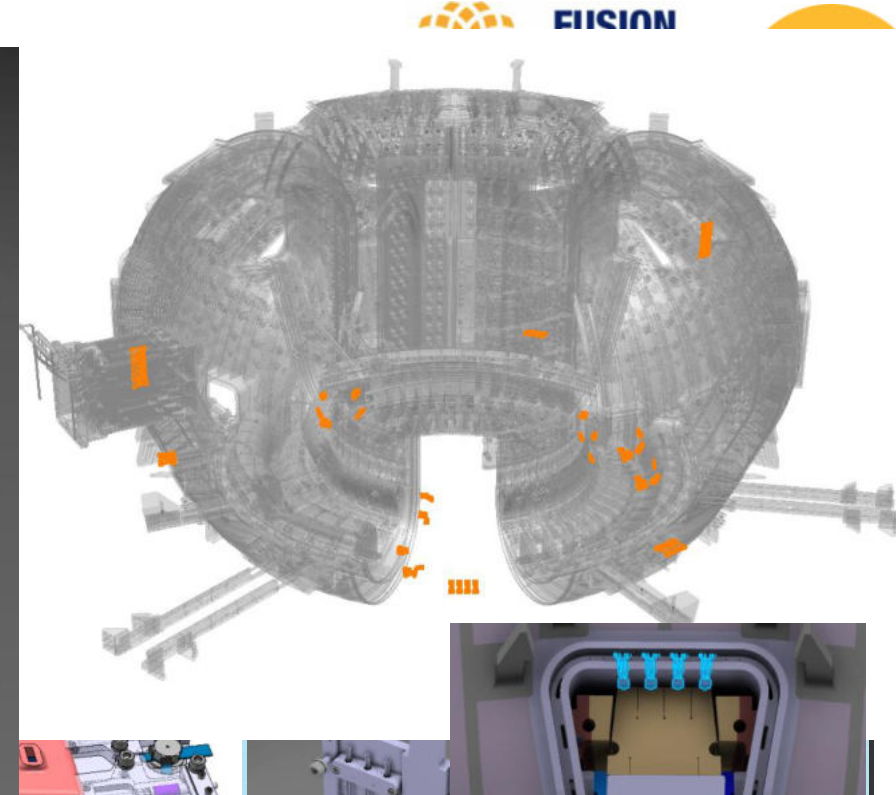
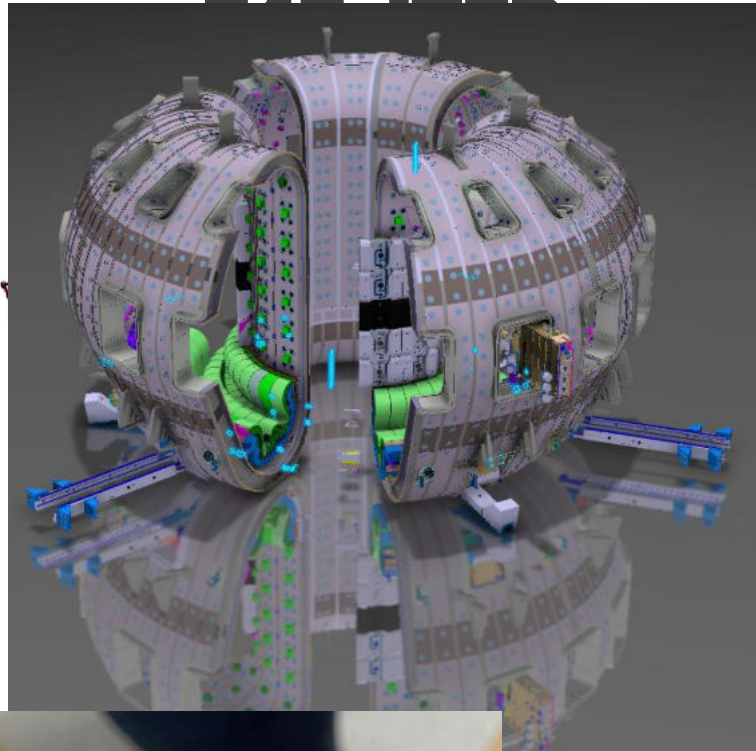
QVS | FUSION

[About F4E](#) [Fusion](#) [ITER](#) [More Projects](#) [Benefits for Europe](#) [Get Involved](#)

F4E signs Diagnostics Engineering Services contract



F4E and AVS representatives meeting at F4E Barcelona

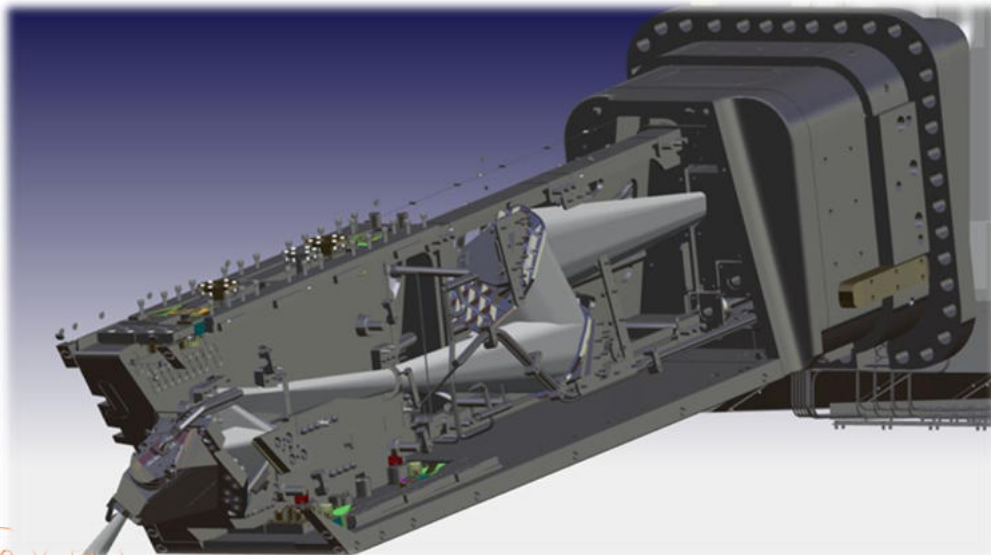
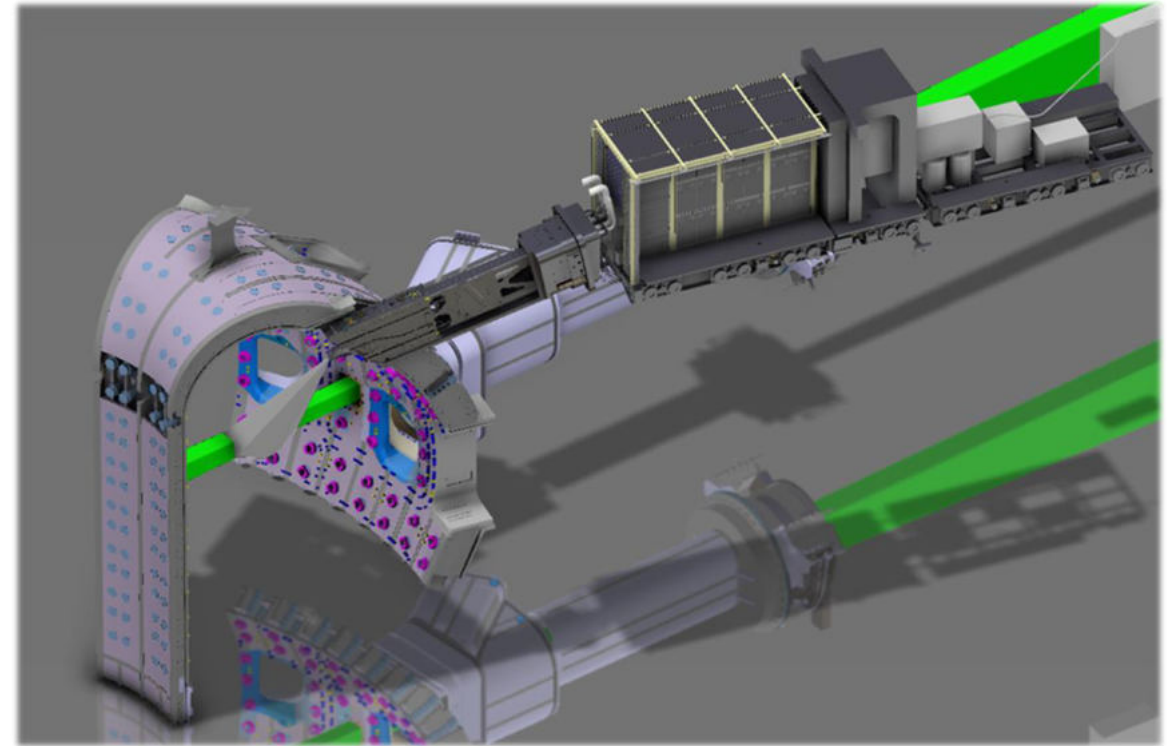
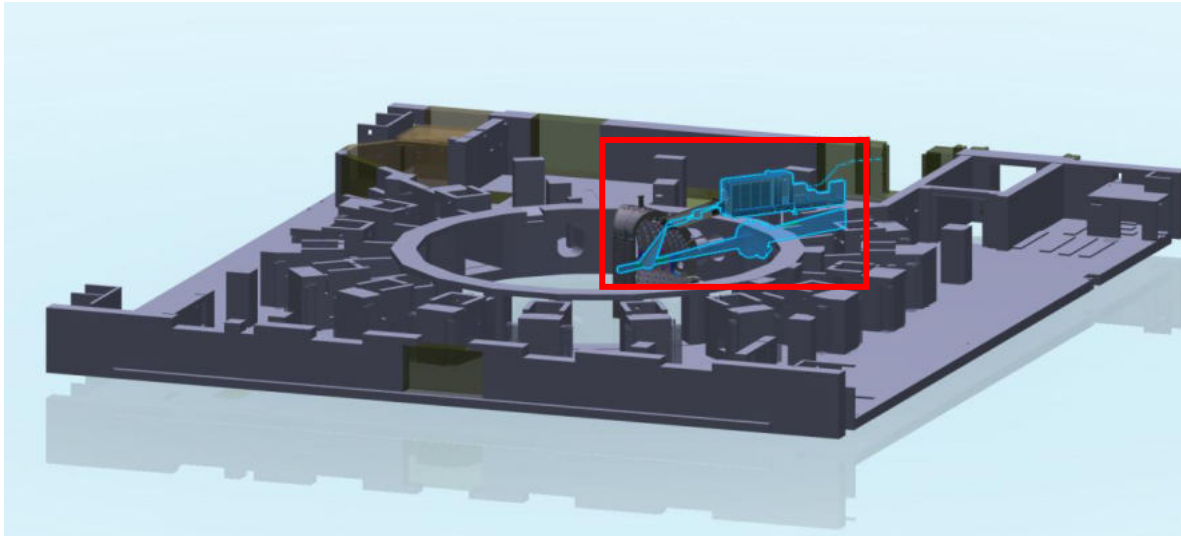


CTS: Collective Thomson Scattering
WAVS: Wide Angle Viewing System
RNC: Radial Neutron Camera
Bolometers
DPGs: Diagnostic Pressure Gauges

9001

9100

ITER CXRS (Charge-Exchange Recombination Spectroscopy)



Framework contract for diagnostics prototyping



FRAMEWORK CONTRACT (IO) DIAGNOSTICS

ITER Outer Vessel Steady State sensors OVSS

ITER mechanical Looms

ITER attachments/Clamps,

ITER ECRH Sensors bolometers

ITER Junction Boxes (Blanket Instrument., Blanket Rogowski, In-Port connector, Flux loops)

ITER Fibre Optics current sensors FOCS

ITER in-vessel diagnostic magnetic sensor platforms

ITER magnetic flux loops mock-ups & tools

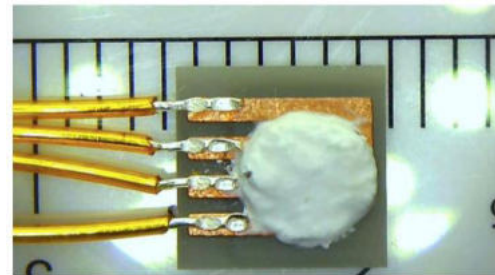
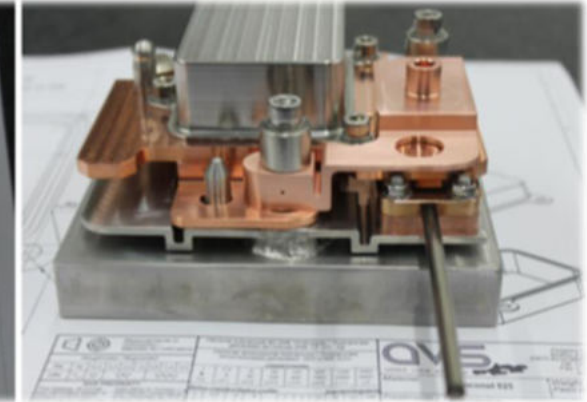
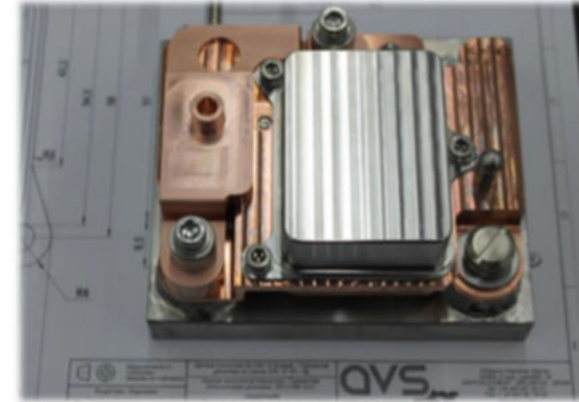
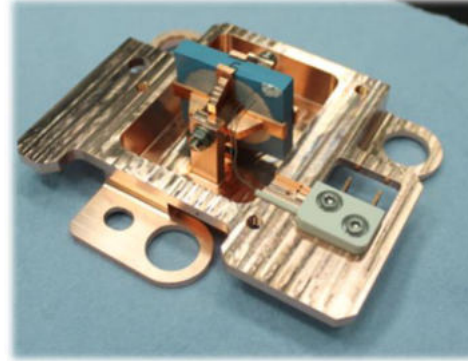
ITER Mirnovs coils Inconel baseplates prototypes

ITER Prototype testing mock-ups (...)

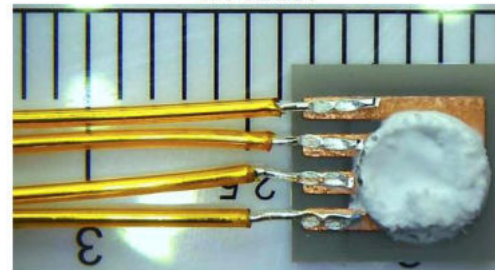
JET 16 channels Low noise Trans-Impedance Amplifier (for Fast Ions Losses KA3). CCFE-UK.

COMPASS D Slits and grids (IPP-CHZ)

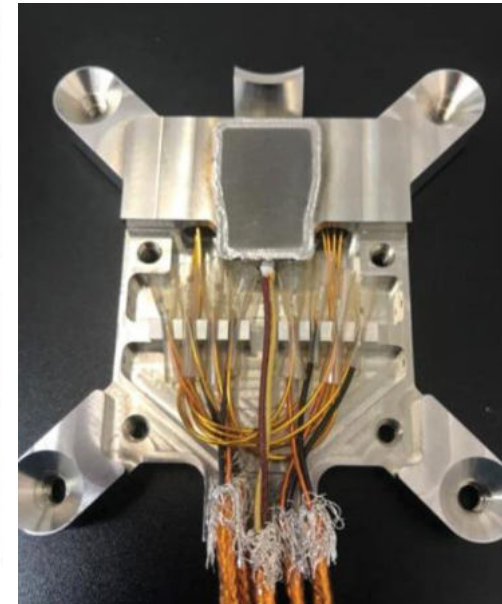
Hall Sensor UVH instrument for WEST Tokamak (CEA)



IPP01G07



IPP01G04



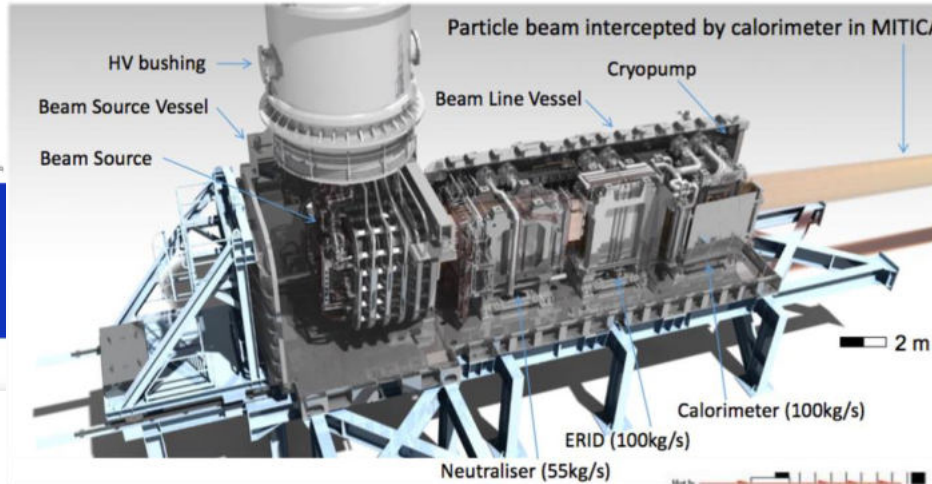
OVSS n°1: normal and tangential hall sensors

And more...

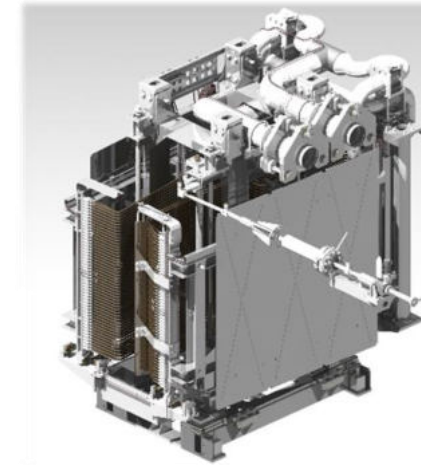
NBI heating and diagnostics (Design&Manufact.)

WORLD most powerful NBI System

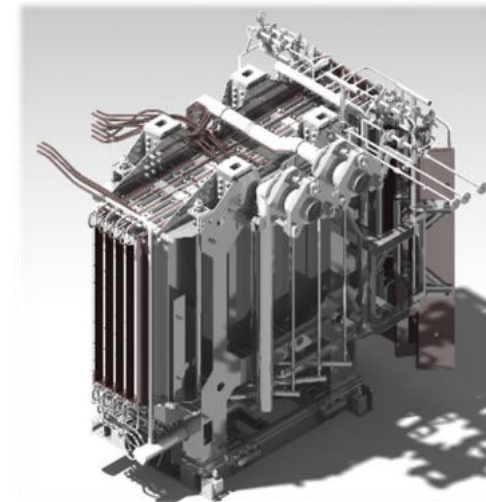
P_{beam}	17 MW (33-40 MW)
I_{acc}	40-50 A
V_{acc}	1 MV
t_{pulse}	3600 s
Weight	50 T



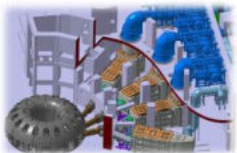
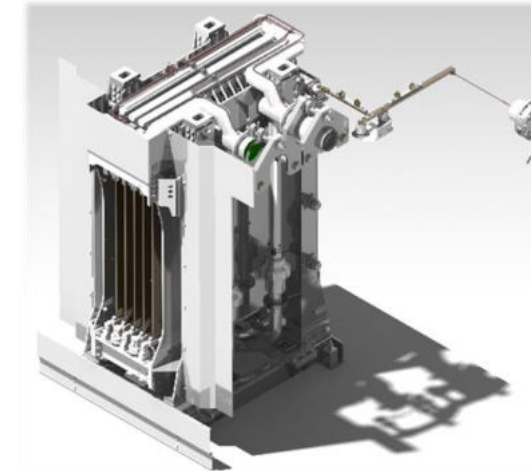
QVS



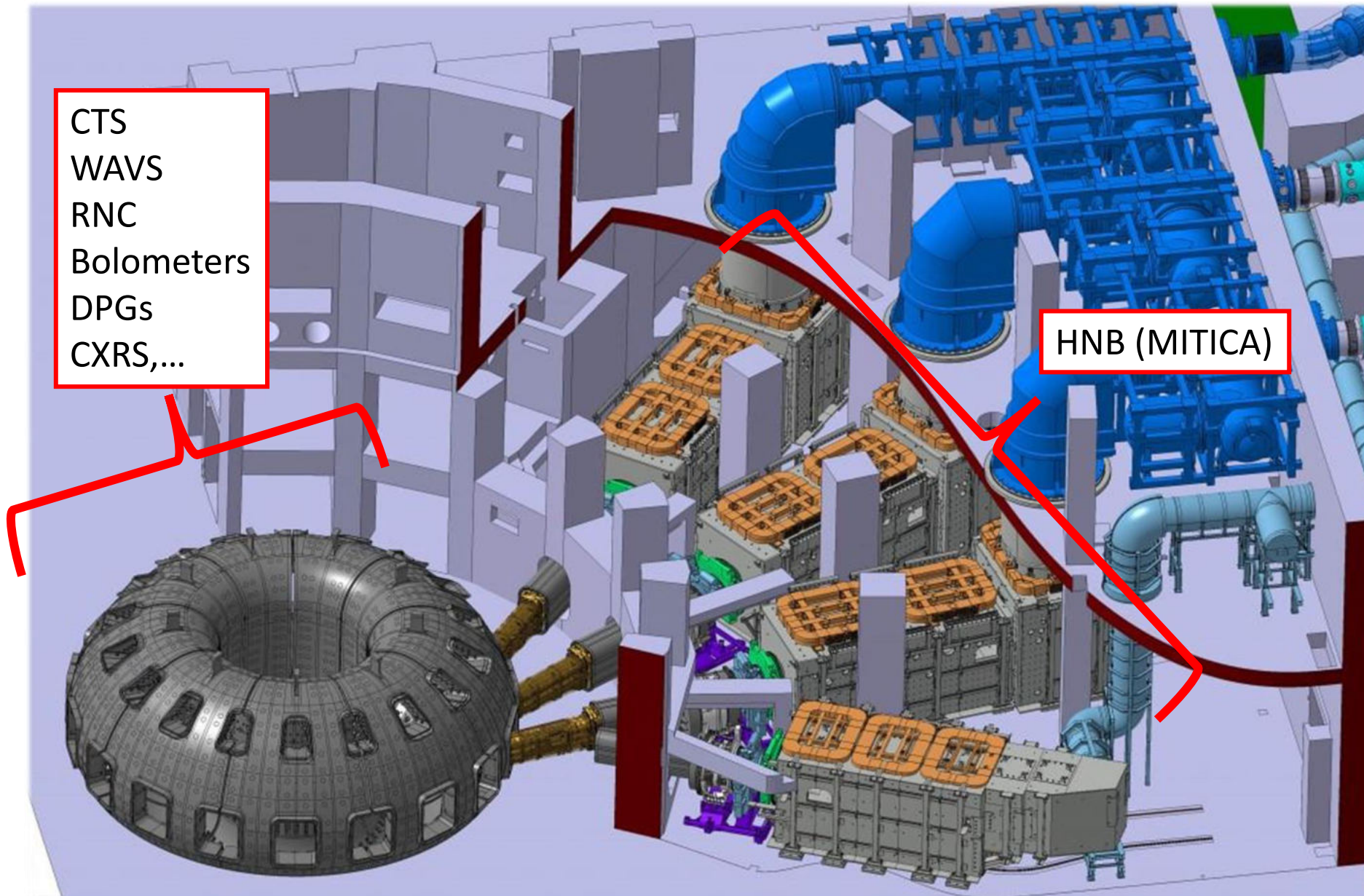
Neutralizador



Residual e/ion Dump



Construir y calentar un SOL en la Tierra



ASTROPHYSICS

SYNCHROTRONS

NEUTRONS

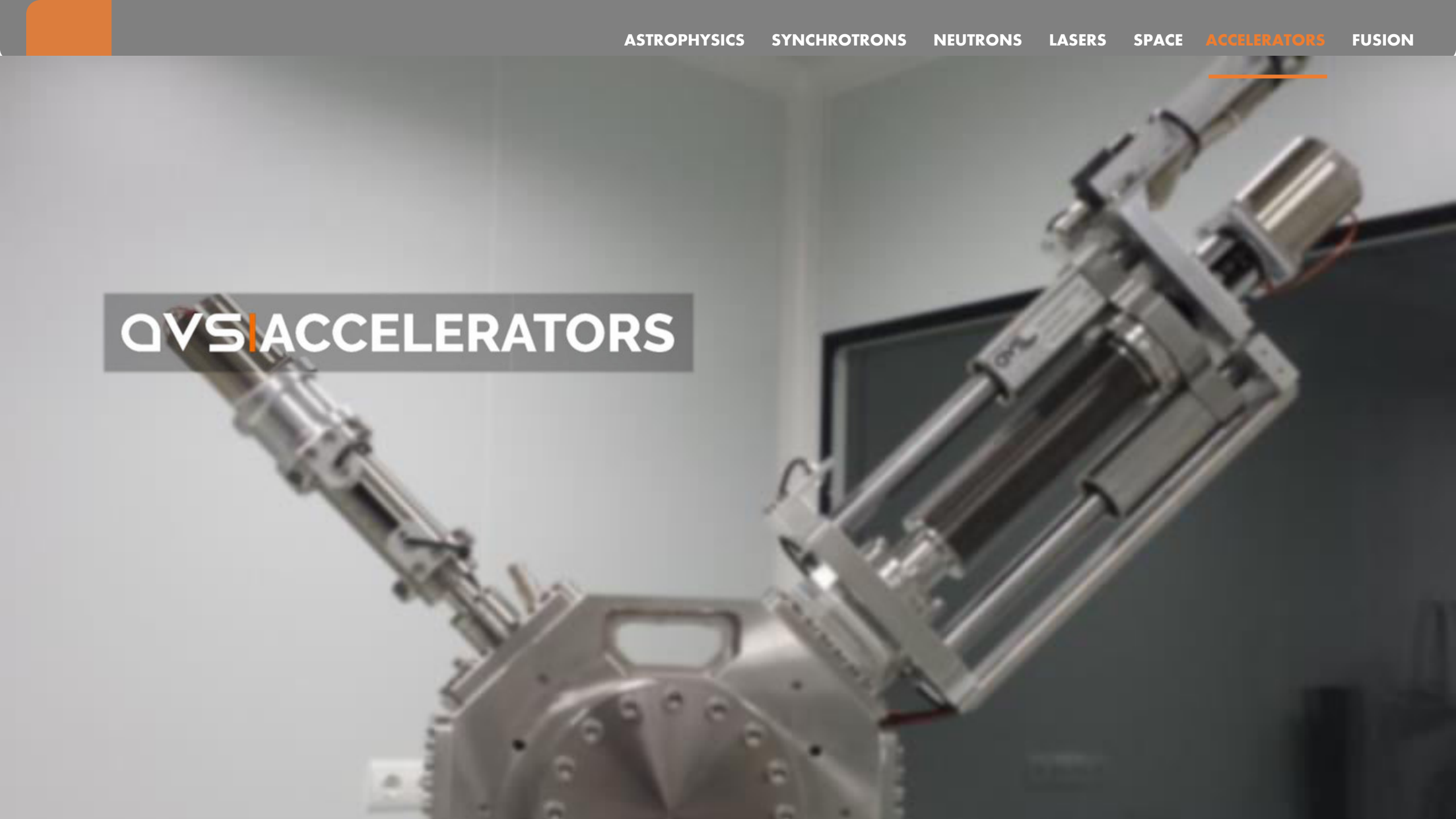
LASERS

SPACE

ACCELERATORS

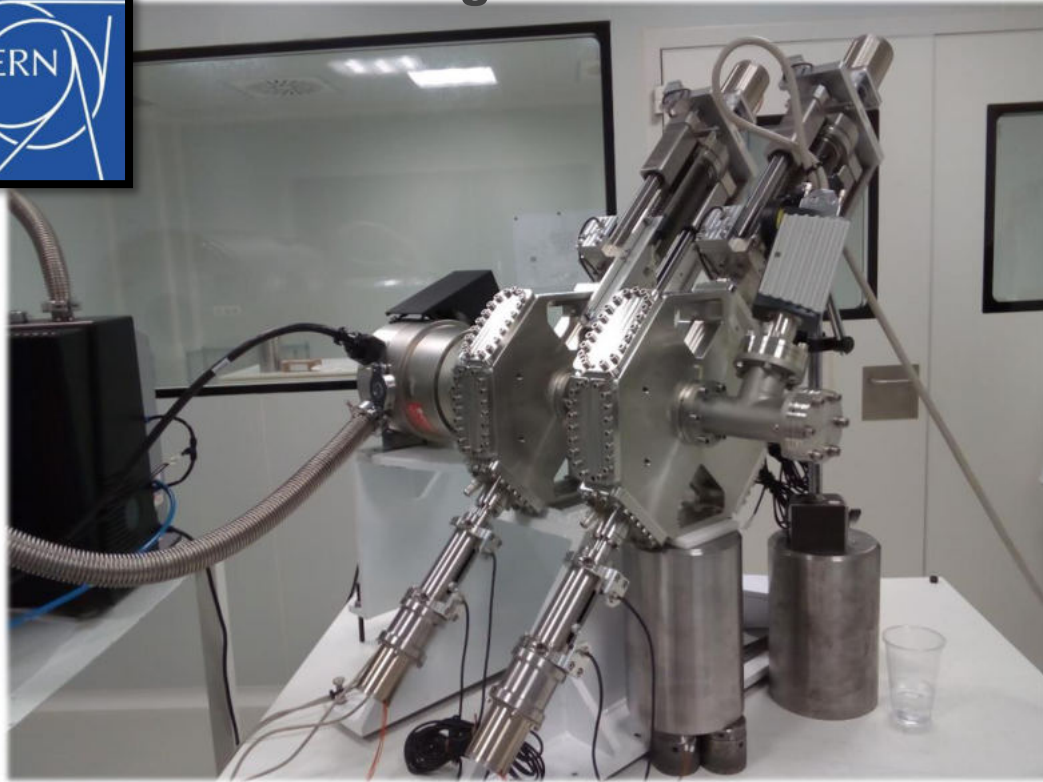
FUSION

QVSI ACCELERATORS

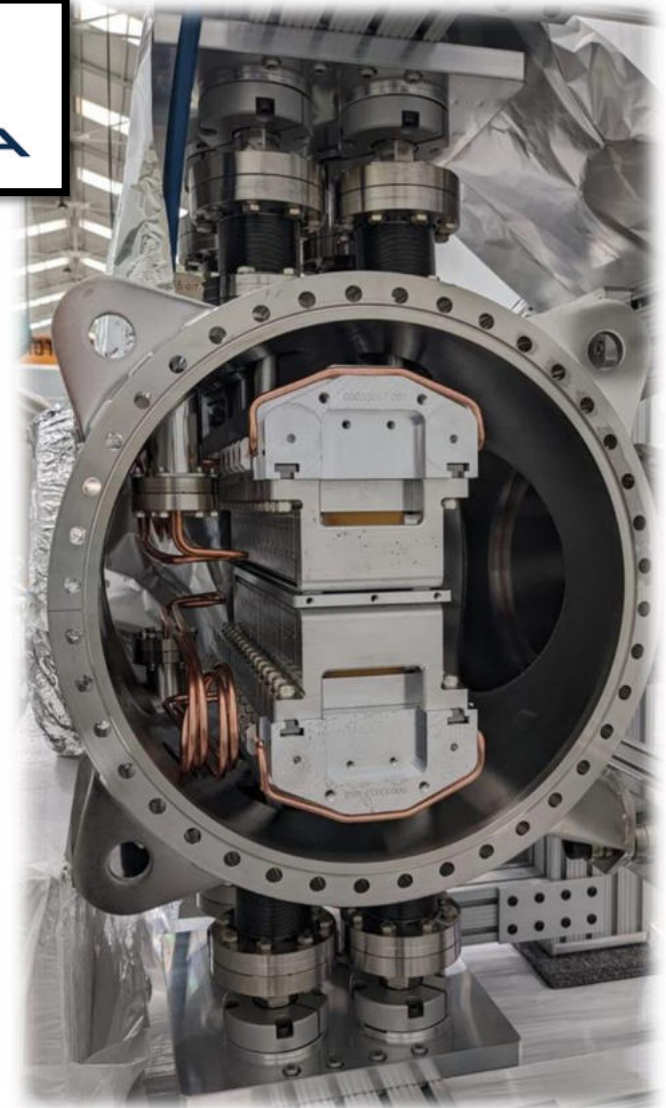




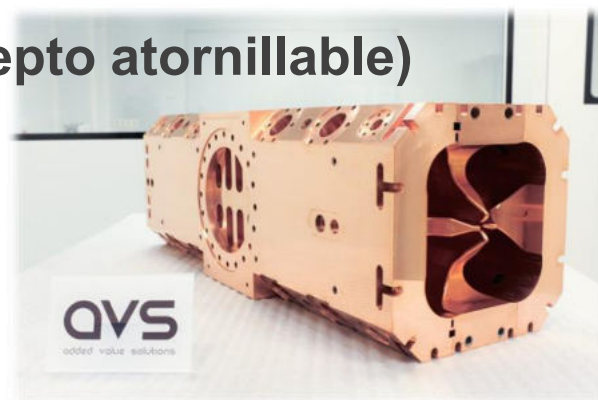
ISOLDE Diagnostic Boxes



Wiggler (aplicación campo magnético intenso local)



RFQ (concepto atornillable)



Scrapers/Collimator



Diagnostic Plate



MEBT (Medium Energy Beam Line)





El objetivo de los Proyectos I+D es aprovechar nuestro *Know-How* para **desarrollar nueva tecnología** que aporte un valor extra a la sociedad.

Ejemplos en Fusión y Aceleradores:

IFMIF-DONES



LINACs tratamiento Cáncer



Compact LINACs

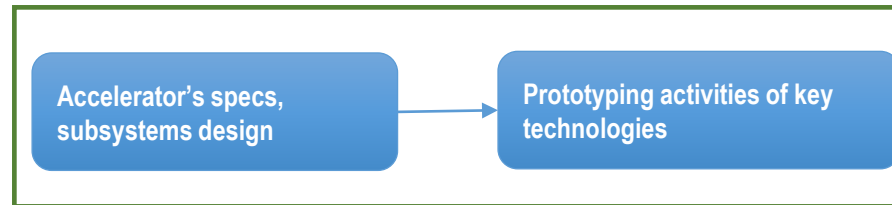
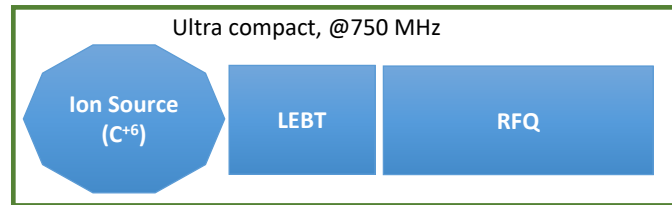
IKERTU. R&D projects that turns into reality

Design of key components of an ultra compact linear accelerator for Hadron therapy (cancer treatment).

Validation of key technologies by means of prototypes

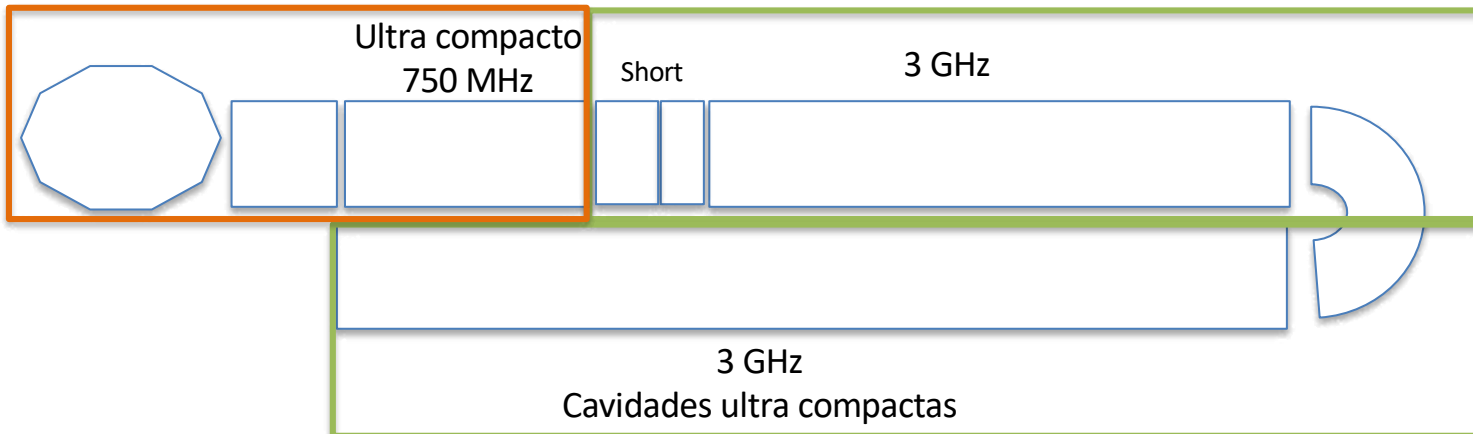
2016-2019

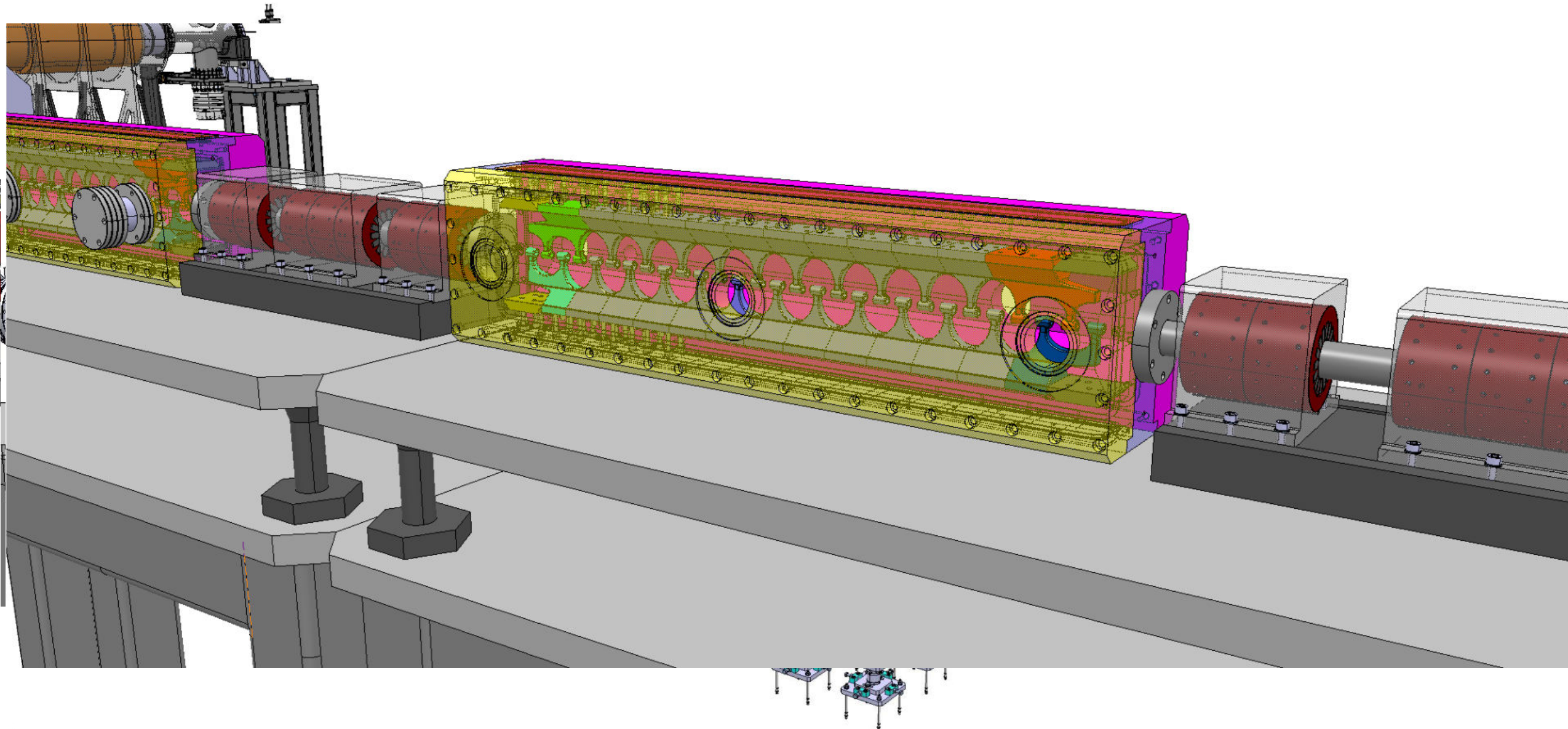
Phase I subsystems (preliminary design up to RFQ) **Developments in phase I** (conceptual design IH cavities, MEBT, protos key tech)



2020-2022

Phase II subsystems (final design up to RFQ) **Developments in phase II** (prelim./final design IH cavities, MEBT, protos key tech)





QVS



Gracias

