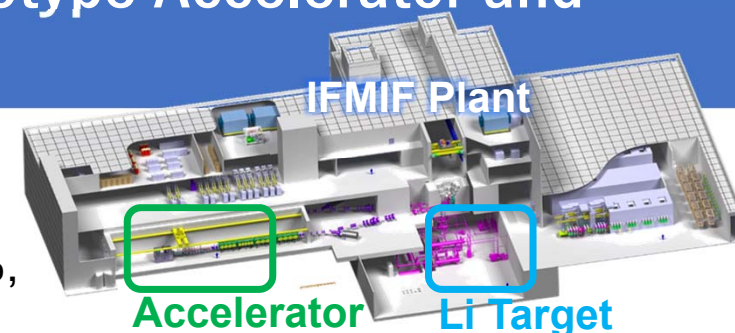


# OV/3-3 Overview of the Validation Activities of IFMIF/EVEDA: LIPAc, the Linear IFMIF Prototype Accelerator and LiFus6, the Lithium Corrosion Induced Facility



## LIPAc Outcomes:

- (1) Kick-off of the RFQ beam commissioning was achieved
- (2) Good sign of RFQ design validity was obtained (transmission >90%, output energy 2.5 MeV, beam current up to 35 mA)
- (3) Beam size, emittance and bunch length measurements were uncompleted in previous campaign
- (4) 50 keV/70 mA p and 100 keV/140 mA d beams satisfy RFQ input emittance <math> < 0.25\pi \text{ mm mrad}</math>
- (5) RF conditioning of RFQ required for the high current d beam
- (6) Assembly of SRF Linac is waiting for the delivery

## LiFus6 Outcomes:

- (1) impurity control ( $N < 30 \text{ wppm}$ ) in Li is feasible
- (2) erosion-corrosion rate in RAFM steel ( $< 1 \mu\text{m/y}$ ) is feasible
- (3) online monitoring of the non-metal impurity requires the further efforts to improve the design of monitor and the measurement method of small variation of resistance

