

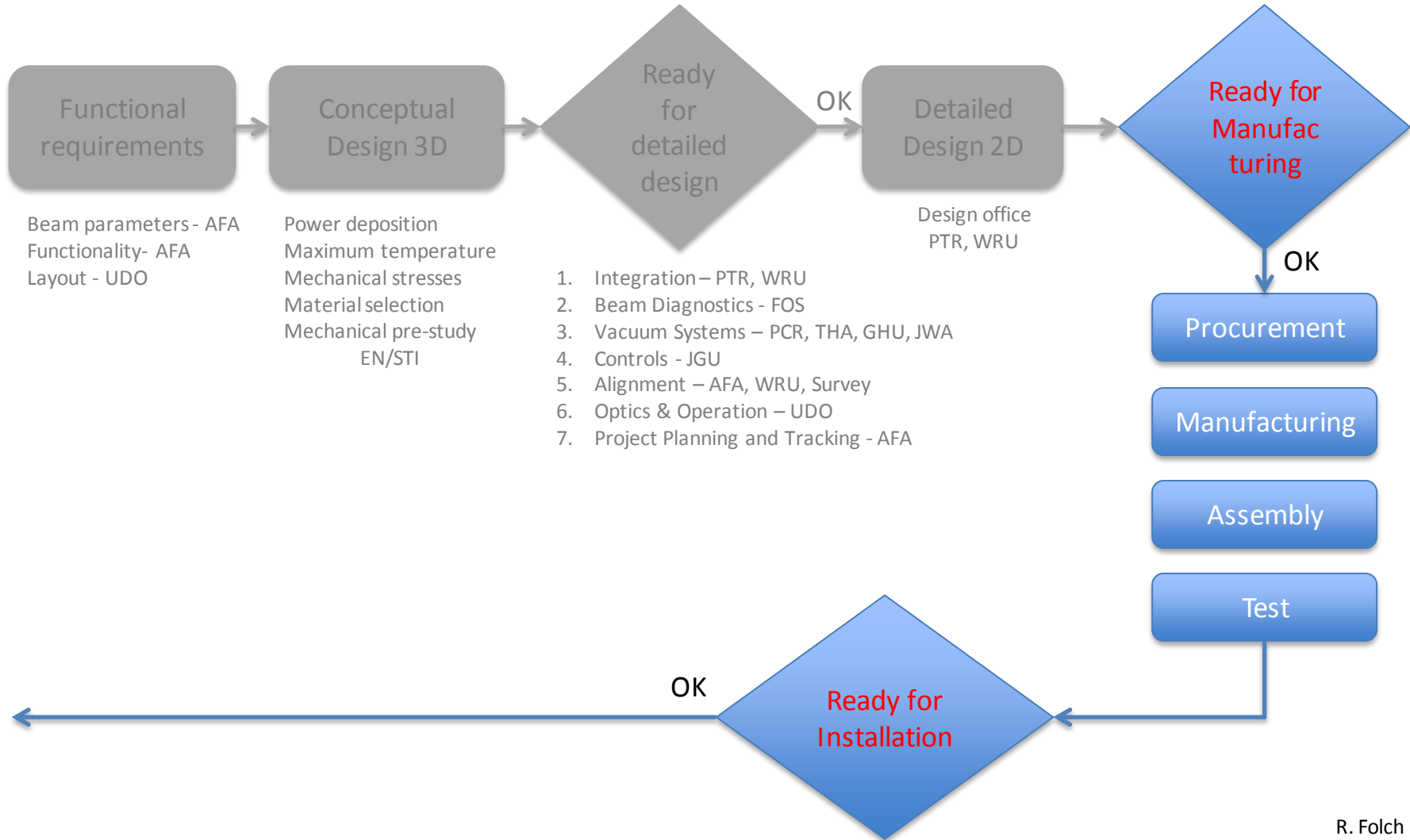
Agenda

<https://indico.cern.ch/conferenceDisplay.py?confid=181008>

- I. Workpackage overview – R. Folch (25' + 5')
- II. Functional requirements of the BIDs – R. Folch (5' + 5')
- III. FLUKA simulations - A. Christov (15' + 5')
- IV. Thermo-mechanical analysis – M. Delonca (25' + 5')
- V. BREAK (15')
- V. Conceptual and detailed design – M. Fürtinger (25' + 5')
- VI. Controls for movable BIDs – R. Folch (10' + 5')
- VII. Manufacturing strategy – R. Folch (15')**
- VIII. Discussion – All (15')

End 12:00

BID WP - Quality Assurance Scheme



Proposed strategy

- The 3D conceptual design of all the BIDs is done by the WP
- Once the 3D design is approved, the detailed design (2D) can be done by
 - The mechanical designer in the WP (BDM)
 - The MA Design Office (surrounding elements)
 - A subcontractor
- Once the detailed design (2D) is approved, the procurement of the raw materials and standards components can start, under the responsibility of the WP
- Manufacturing of the components: 2 options
 - By EN/MME (possibly subcontracted)
 - By a subcontractor according to the MA procurement procedure
- Metrology of the mechanical components: by EN/MME
- Assembly of the BIDs: EN/STI mechanical workshop
- Final test at CERN: procedure and tooling to be discussed

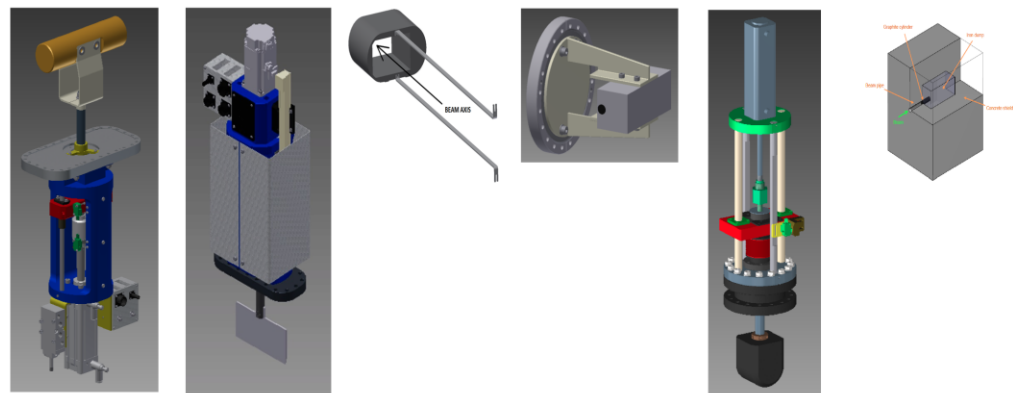
Support from EN/MME

- The support expected from EN/MME has been roughly estimated to
 - 12 p.m of mechanical components, involving machining, welding, and sheet metal forming
 - 6 p.m of metrology

This shall be refined based on the manufacturing strategy and the according to the detailed design (2D)
- In parallel, ad-hoc technical meetings are held with EN/MME experts to optimize the feasibility and the tolerances of the components

Manufacturing plan

	MEBT Dump BDM	Scrapers SCV & SVH	Internal Dumps BDH & BDV	Chopper Dump BDC	Beam stoppers BST 1-4	Extraction Dump BDE
Number of units	1	4	2	1	4	1
Spares (t.b.d.)	1 W block	2 plates (H/V)	2 W blocks	1 W block	1 unit	0
Block/plate	WP BID	EN/MME	Supplier	Supplier	Supplier	Supplier
Body + supports	WP BID	EN/MME	EN/MME	EN/MME	EN/MME	N.A.
Guiding system	WP BID	Supplier	N.A.	N.A.	Supplier	N.A.
Actuator	WP BID	Supplier (WP BD)	N.A.	N.A.	Supplier	N.A.
Flange	WP BID	EN/MME	N.A.	EN/MME	EN/MME	N.A.
FE electronics	WP BID	Supplier (WP BD)	N.A.	N.A.	Supplier	N.A.
Standard comp.	WP BID	Supplier	Supplier	Supplier	Supplier	N.A.
Metrology	WP BID	EN/MME	EN/MME	EN/MME	EN/MME	N.A.
Clean/treatment	WP BID	TE/VSC	TE/VSC	TE/VSC	TE/VSC	N.A.
Assembly	WP BID	WP BID	WP BID	WP BID	WP BID	WP BID /MA
Final test	WP BID	WP BID	WP BID	WP BID	WP BID	WP BID /MA



Delivery target

Jan 2013

Feb 2013

Feb 2013

Apr 2013

May 2013

June 2013

MANY THANKS TO...

- You (attendees)
- Speakers: M. Delonca, M. Fürtinger, A. Christov
- Contributors: K. Asvestas, O. Aberle, D. Grenier, C. Maglioni, A. Masi, J. Lendaro, C. Mitifiot, V. Vlachoudis, M. Calviani, G. Jean, M. Benedikt, A. Fabich, U. Dorda, H. Pavetits, J. Gutleber, P. Trilhe, W. Rupprecht, T. Hauser, A. Maillot, S. Bailly, P. Landrot, JP. Brachet, A. Cherif, M. Polini, S. Pelletier, E. Feldbaumer, F. Osmic, M. Repovz, G. Hulla,... + all those I forgot to mention!



The Harley
Chopper
Dump

