

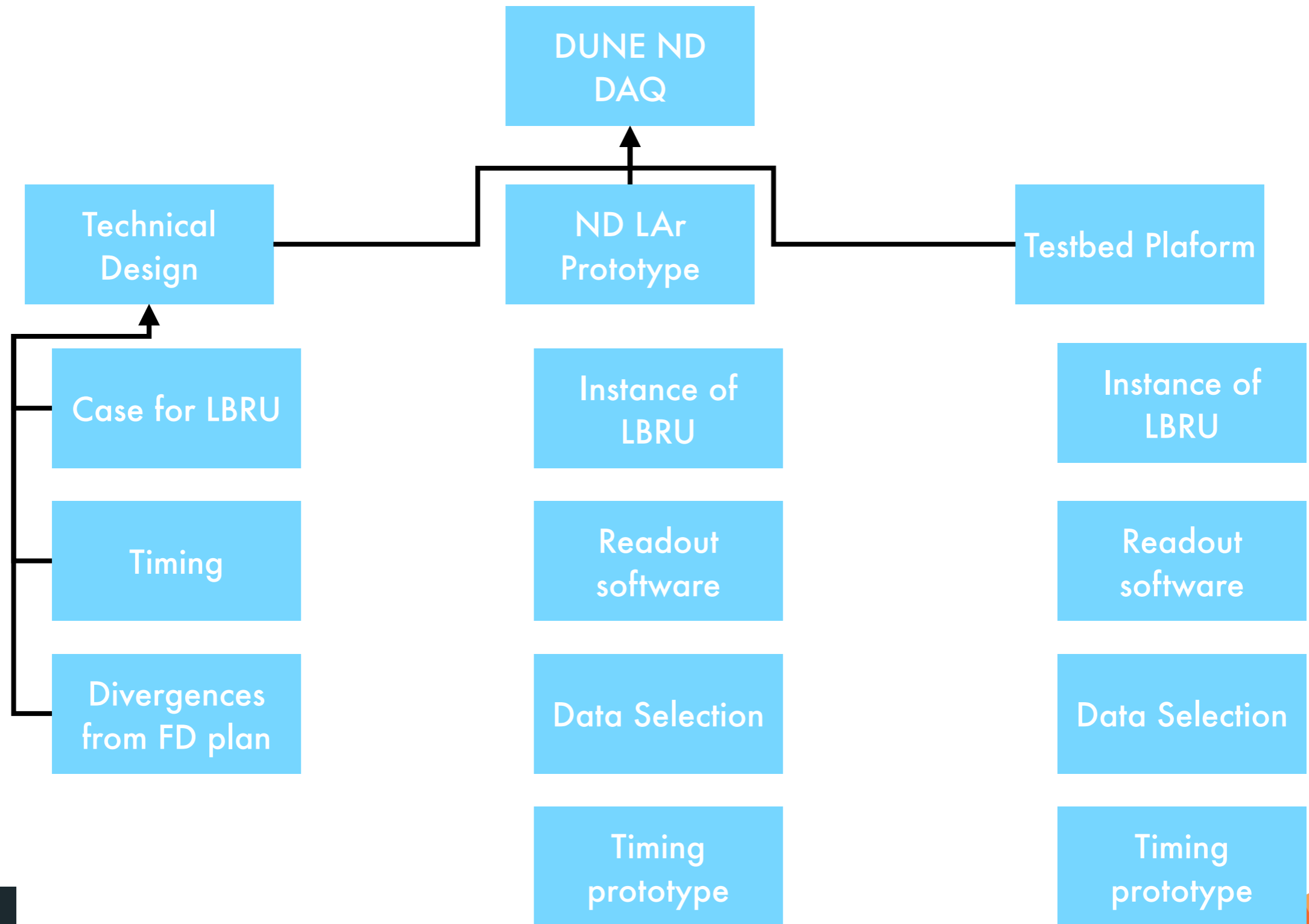
Preparing for Change Request

Project Objective and Scope

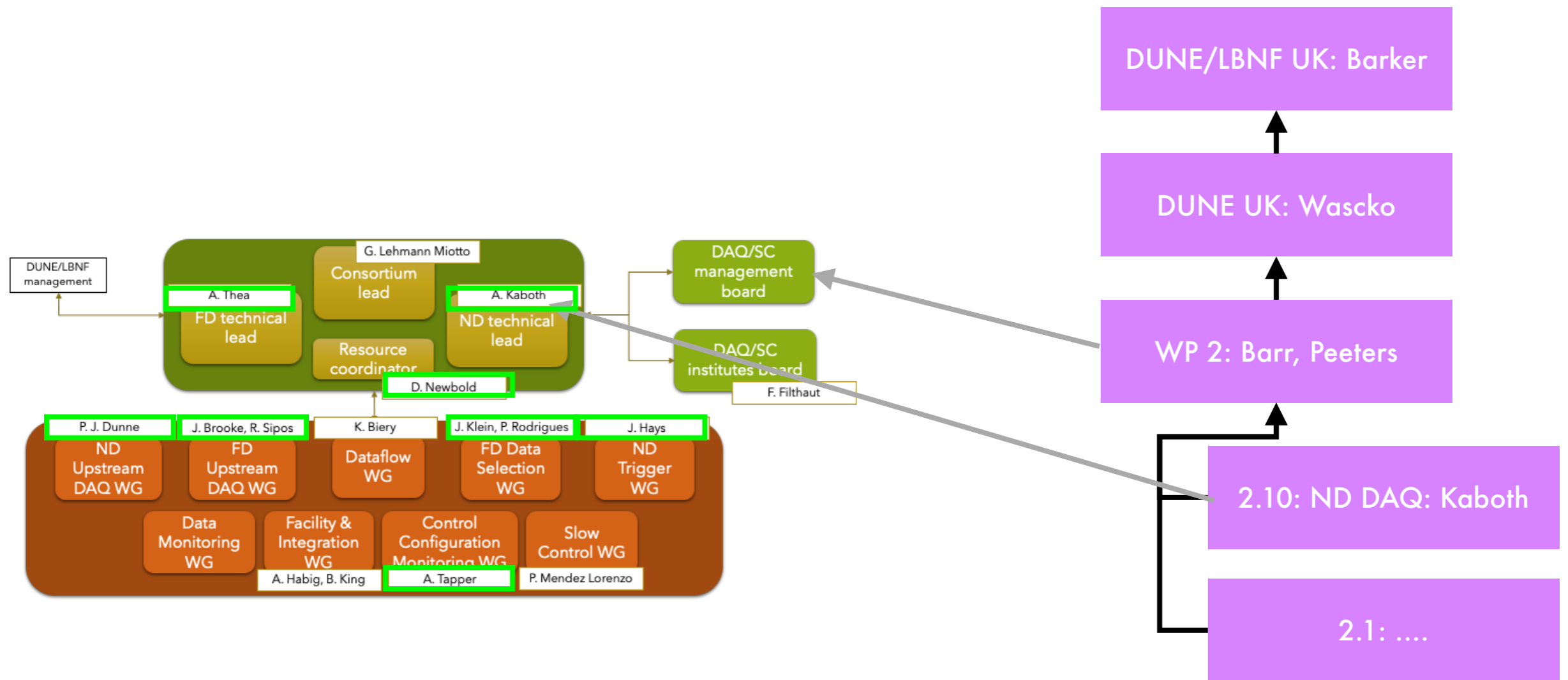
Two Year Plan

- ◉ Project Objectives
 - ◉ Prepare a full technical design for the ND DAQ
 - ◉ Build a prototype DAQ system for the ND LAr system
 - ◉ Build an electronics testbed for other DAQ testing
- ◉ In Scope
 - ◉ Software development specific to ND DAQ
 - ◉ Contributions to overall DUNE DAQ framework
 - ◉ Procurement of hardware for test stands
- ◉ Out of Scope
 - ◉ Test stands for other ND detectors test beam
 - ◉ FD specific development
 - ◉ Procurement for final design

PBS



Organization Chart



WBS

2.10: ND DAQ

2.10.1: LBRU

2.10.2: Data Selection

2.10.3: Timing

2.10.4: Test Stands and Integration

+ contribution to overall system

Schedule Plan

- This exists, but cannot be put in readable form on these slides

Initial Risks 1 /

ID	Risk	Owner	P	I	S	Response	Mitigation
1	W/o leadership, individual ND consortia left to develop own DAQ plan, resulting in no unification		H	H	H		Develop strong leadership and early intervention
2	Development of TD identifies substantial differences to FD		M	L	L		Publish technical design and evaluate future plans with DAQ consortium
3	Failure to deliver prototype to ND LAr due to lack of person power		L	M	L		Ensure schedule is well-resourced
4	OPP: increase UK leadership in DUNE DAQ		H	M	H		
5	OPP: increase UK leadership in ND		H	M	H		
6	Timescales of ND and FD drift apart, making collaboration less effective		M	M	M		Work with FD to identify where personnel can be shared
7	Some ND consortia do not agree to common DAQ		L	H	M		Engage DUNE EB to resolve situation
8	LBRU does not achieve goals		L	H	L		Test early and often
9	Key staff or Fellowship staff leave		M	H	H		Succession planning; consider WA to cover fellowship staff
10	Unable to recruit with necessary skills		M	M	M		Advertise widely; work with DUNE to identify candidates

Initial Risks 2/

ID	Risk	Owner	P	I	S	Response	Mitigation
11	Currency Fluctuations		M	L	L	Essentially only travel affected	Monitor fluctuations and adjust travel planning
12	ND Detector design not finalized before 2 years		M	L	L		Design for what is available and develop interface documents for uncertainty
13	Overall DUNE delay		M	M	M		
14	Pandemic prevents staff travel for prototypes		M	L	L		Plan remote operations; identify consortium leads for onsite work
15							
16							
17							
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20							

Quality Plan

- ◉ Project Management Standards
 - ◉ DUNE already has project management standards
 - ◉ Any doubts on any aspect of the project consult the Project Manager as first point-of-call
- ◉ Project Documentation
 - ◉ Coordinated through Fermilab and CERN systems with DUNE DAQ consortium
 - ◉ Detailed resource scheduling through MS Project (Hays) to be integrated with DUNE UK project
- ◉ Quality Controls
 - ◉ Software aspects are reviewed through DUNE DAQ consortium
 - ◉ Interfaces with ND LAr to be developed and checked by a nominated person on both sides