

- Since our last meeting:
 - LCWS 2021, 51 parallel session, 292 talks, 900+ registered, LC school, Industry session, ANA
 - New Physics and Technologies
- Acc. Technical Preparation Document, review and revisions, rev. 5 available
Main documents available at: <https://agenda.linearcollider.org/event/9179/>
WBS for Prelab includes TPD WPs and more (as EDR, infrastructure and industry qualification)
(Benno)
- Many new initiatives related to WG3 (Jenny)
- Documents to MEXT in May, main one intermediate report by EB (next slide)

Prelab planning document from the IDT (interim report), around 40 pages.

It covers the organizational parts of the Prelab and summaries of the accelerator, site, physics and detector work foreseen during the Prelab phase.

- Prelab Organization, Legal structure and start up process
- Workplan (acc, site, det&phys)

Not yet public. Discussed in WG1 meeting today. Will be passed by ICFA.

Aimed to be support document for Funding Applications, first in Japan

European Planning

Discussion of timeline for European (and Americas) planning from the IDT point of view:

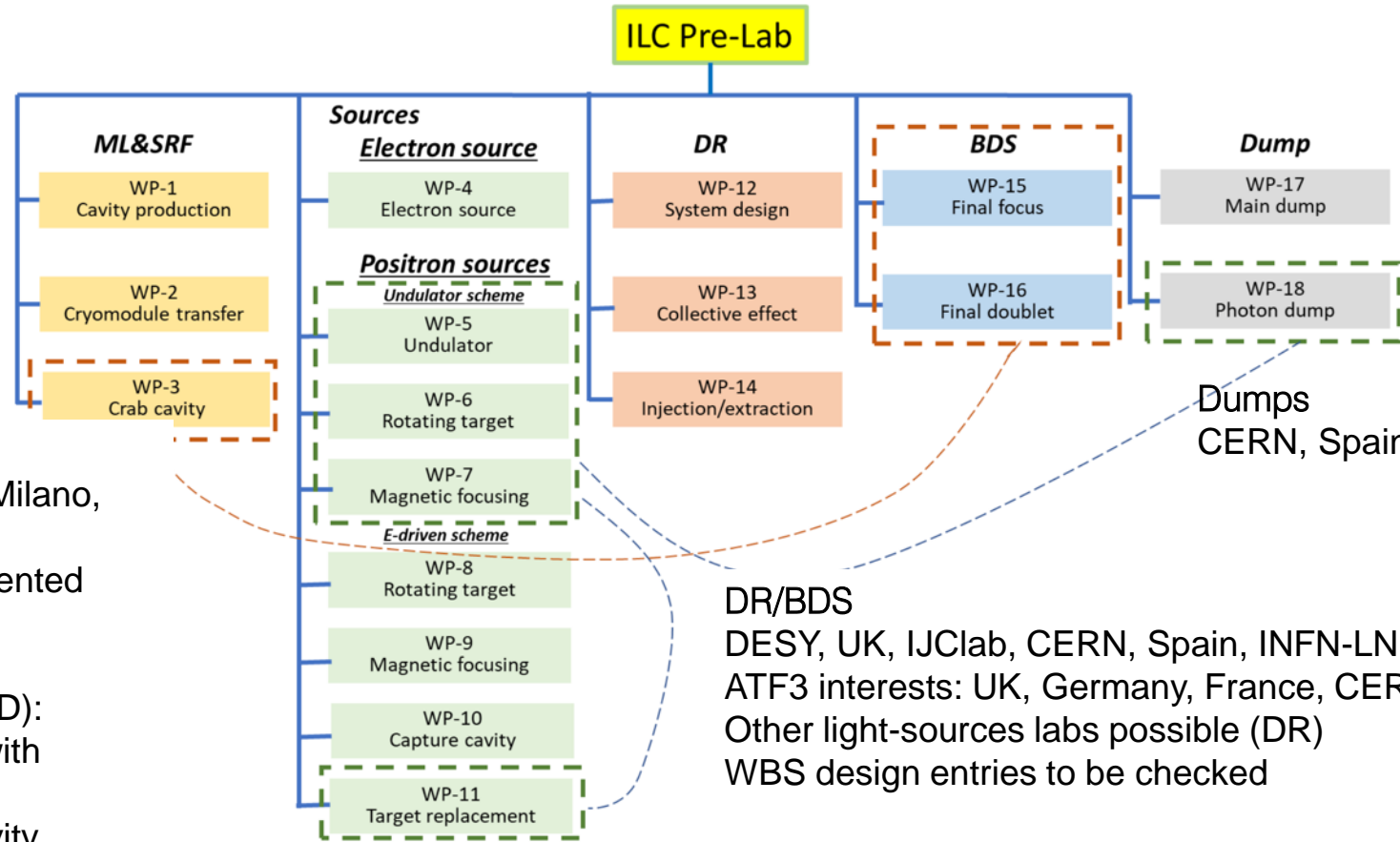
Identify "Interest and Capabilities" for contributions to WPs, including specific about these potential contributions, and also possible contributions to the Engineering Design by end June.

Ultimately this should fit into the WBS entries, but for the time being use Technical Preparation WPs supplemented by Engineering Design items in WBS.

Two levels:

- WP interests and capabilities
- Bottom up resource estimates

Pre-lab work-packages



ML & SRF
CEA, CERN, CIEMAT, UK, INFN Milano, DESY
Not all European SRF labs represented (see later)

Additionally (in WBS but not in TPD):

- Long term cryo collaboration with CERN.
- HiEff RF another relevant activity
- SRF “basic” R&D for fabrication improvements or long term performance improvements (i.e. for upgrades)

Sources
DESY, UK, CERN
IJCLab also, other groups also possible (FCC-ee, Dafne)

DR/BDS
DESY, UK, IJCLab, CERN, Spain, INFN-LNF
ATF3 interests: UK, Germany, France, CERN, Spain
Other light-sources labs possible (DR)
WBS design entries to be checked

Dumps
CERN, Spain

SRF and ML – WP 1 and 2

The ILC SRF regional prelab goals are considered very achievable for cavities and modules in terms of capabilities and facilities, also participation the crab cavity WPs, and main linac SC magnet developments are being planned

- The role of each laboratory are to be defined in agreement with other commitments on the Pre-lab timescale (ESS, PIP-II, HiLumi, EU-XFEL operation and upgrades for example)
- The final destination is Japan and not DESY so this also implies changes in work-sharing with respect to the EU-XFEL model, for DESY in particular
- And to repeat, new laboratories and new capabilities will be integrated
- **Specific Pre-lab funding is needed and need to be requested at the right time to the relevant funding bodies**

European ILC Pre-lab matrix										
	CEA	DESY	INFN Milan	IJClab	UK	Uppsala	CIEMAT	CERN	Poland	Comment
Cavities										
Cryomodules										
Cavity String Assembly										
Modules (test)										
Module (transp)										
Power Couplers										
HOM Couplers										
Frequency Tuners										
SC magnets										

IN PROGRESS

Similar for crab-cavities, the detailed overall Pre-lab programme is being defined, the main European laboratories involved in the planning are in the UK and CERN

Pre-lab planning “from groups”

European SRF meetings

Pre-lab effort at two “intensity” levels:

- R&D interests and capabilities, link to “local” strategic interests [Scientific and Technical Collaboration] Existing/continuing common studies and/or generic R&D resources
- Identification and preparation of ILC prelab deliverables, in almost all cases new resources required

In both cases identify existing or potential partners and industries, material and personnel estimates, timeline, infrastructure needs and availability

Based on Pre-lab Technical work-packages, but allows some flexibility

B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Responsible/Contact	Pull down menu from SHEET 2 R&D / PreLab / Construction category	Pull down menu from SHEET 3 ILC category	More details	Involved industry and status	Collaborators and relevances	FTE	Material (k€)	FTE	Material (k€)	FTE	Material (k€)	FTE	Material (k€)	FTE	Material (k€)	FTE	Material (k€)	More comments (examples)	
name/name	RD: Component designs (coupler/tuners,...)	Coupler production incl. preparation/RF processing re	Design by May 22, possible prototype	So and so can produce, not	HL LHC, FCC, etc	0.5	100	0.5	100	0.5	100							Funding available	
name/name	PL: RF system prototypes	No appropriate category found	kystron design and prototype															Applied for funding	
name/name	RD: Cavity R&D, processes and final design	Cavity Production Success yield	Process studies, internal EB welding															Linked to work for PIP II	
Do not fill for construction phase																			
<p>R&D - typically collaborative efforts which can be afforded with existing or adapted skills, personnel and facilities:</p> <p>1 RD: Cavity R&D, processes and final design 2 RD: Component designs (coupler/tuners,...) 3 RD: Longer term R&D (Grad,Q) 4 RD: Local infrastructure 5 RD: Cryogenics system design 6 RD: RF system R&D 7 RD: Crab cavity design and R&D 8 RD: Magnet design/R&D 9 RD: Other</p> <p>10 PL: Cavity preseries 11 PL: Cryomodule prototype 12 PL: Components (coupler/tuner,...) 13 PL: Transport 14 PL: Cryomodule prototype 15 PL: RF system prototypes 16 PL: Prototypes in industry (qualification) 17 PL: Facilities and infrastructure (new/improvement) 18 PL: Other</p> <p>Pre-lab activities - typically related to construction preparation, including local infrastructure</p> <p>19 CN: SCRF cavities 20 CN: Power Couplers 21 CN: HOM couplers 22 CN: Frequency tuners 23 CN: Cold vacuum 24 CN: Cryomodules 25 CN: Cavity testing 26 CN: Cryomodule testing 27 CN: Shipping 28 CN: Cryogenics system 29 CN: SC magnets 30 CN: Others 31 CN: Crab cavity (provide details) 32 CN: RF systems (provide details)</p> <p>33 EN: SCRF cavities 34 CN: HOM couplers 35 CN: Frequency tuners 36 CN: Cold vacuum 37 CN: Cryomodules 38 CN: Cavity testing 39 CN: Shipping 40 CN: HOM couplers 41 CN: Frequency tuners 42 CN: Cold vacuum 43 CN: Cryomodules 44 CN: Cavity testing 45 CN: Shipping 46 CN: HOM couplers 47 CN: Frequency tuners 48 CN: Cold vacuum 49 CN: Cryomodules 50 CN: Cavity testing 51 CN: Shipping 52 CN: HOM couplers 53 CN: Frequency tuners 54 CN: Cold vacuum 55 CN: Cryomodules 56 CN: Cavity testing 57 CN: Shipping 58 CN: HOM couplers 59 CN: Frequency tuners 60 CN: Cold vacuum 61 CN: Cryomodules 62 CN: Cavity testing 63 CN: Shipping 64 CN: HOM couplers 65 CN: Frequency tuners 66 CN: Cold vacuum 67 CN: Cryomodules 68 CN: Cavity testing 69 CN: Shipping 70 CN: HOM couplers 71 CN: Frequency tuners 72 CN: Cold vacuum 73 CN: Cryomodules 74 CN: Cavity testing 75 CN: Shipping 76 CN: HOM couplers 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<p>ILC CATEGORIES AS DEFINED IN THE DOCUMENT REFERED IN HYPERLINK BELOW</p> <p>40 Cavity production, partly incl. cavities w/ He tank-mag. shield for CM, high pressure gas regulation, EP/HT/Clean work, partly 2nd pass, incl. VT 41 Plug-compatibility, surface treatment, Nb material to be reconfirmed/decided 42 Cavity Production Success yield 43 Tuner design to be decided 44 Infrastructure for EP, HT, VT, pre-tuning, etc. 45 Coupler production incl. preparation/RF processing readiness (not incl. klystron, baking furnace, clean room) 46 Tuner production readiness 47 SCM (Q-D combined) production readiness 48 CM production incl. high pressure gas, vacuum vessel, cold-mass, and assembly (cavity-string, coupler/tuner, SCM etc.) 49 CM test and degradation mitigation (in 2-CM joint work) at production site 50 CM Transportation cage and shock damper 51 Mockup-CM ground transportation practice 52 Real-CM ground transportation test 53 Global CM transfer (sea shipment, longer than CM at E-XFEL, to be checked) 54 Performance assurance test after global CM transfer 55 Returning transport to home country again (by sea shipment) 56 Hub-lab infrastructure for the CM production, assembly, and test (at each lab.) 57 Crab: Decision of installation location with cryogenics/RF location accelerator tunnel 58 Crab: Design and development of prototype cavity/coupler/tuner/CM include. beam extr. line 59 Crab: Cavity production, incl. cavities w/ He tank-mag. shield for CM, high pressure gas regulation, EP/HT/Clean work, incl. VT 60 Crab: Coupler production incl. preparation/RF processing readiness (not incl. klystron, baking furnace, clean room) 61 Crab: Tuner production readiness 62 Crab: CM production incl. high pressure gas, vacuum vessel, cold-mass, and assembly (cavity-string, coupler/tuner, SCM etc.) 63 Crab: CM test incl. harmonized operation with two cavities 64 Crab: Infrastructure for CC (and CM) development and test (w/ corresponding lab.) 65 EDR document preparation, regular meetings/discussions 66 No appropriate category found</p>						<p>0.5 100 0 0 0 0 0 0 0 0</p>													
<p>These categories are extracted from the WG2, SRF subgroup meeting 22.12 (password: ilc250) https://agenda.lindera.cern.ch/event/9041/attachments/36213/56345/item.LiHV5C_SRF_17Dec2020.xlsx</p>																			

