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ePIC SVT: OB module, towards requirements definition.

WP3 Electrical interfaces



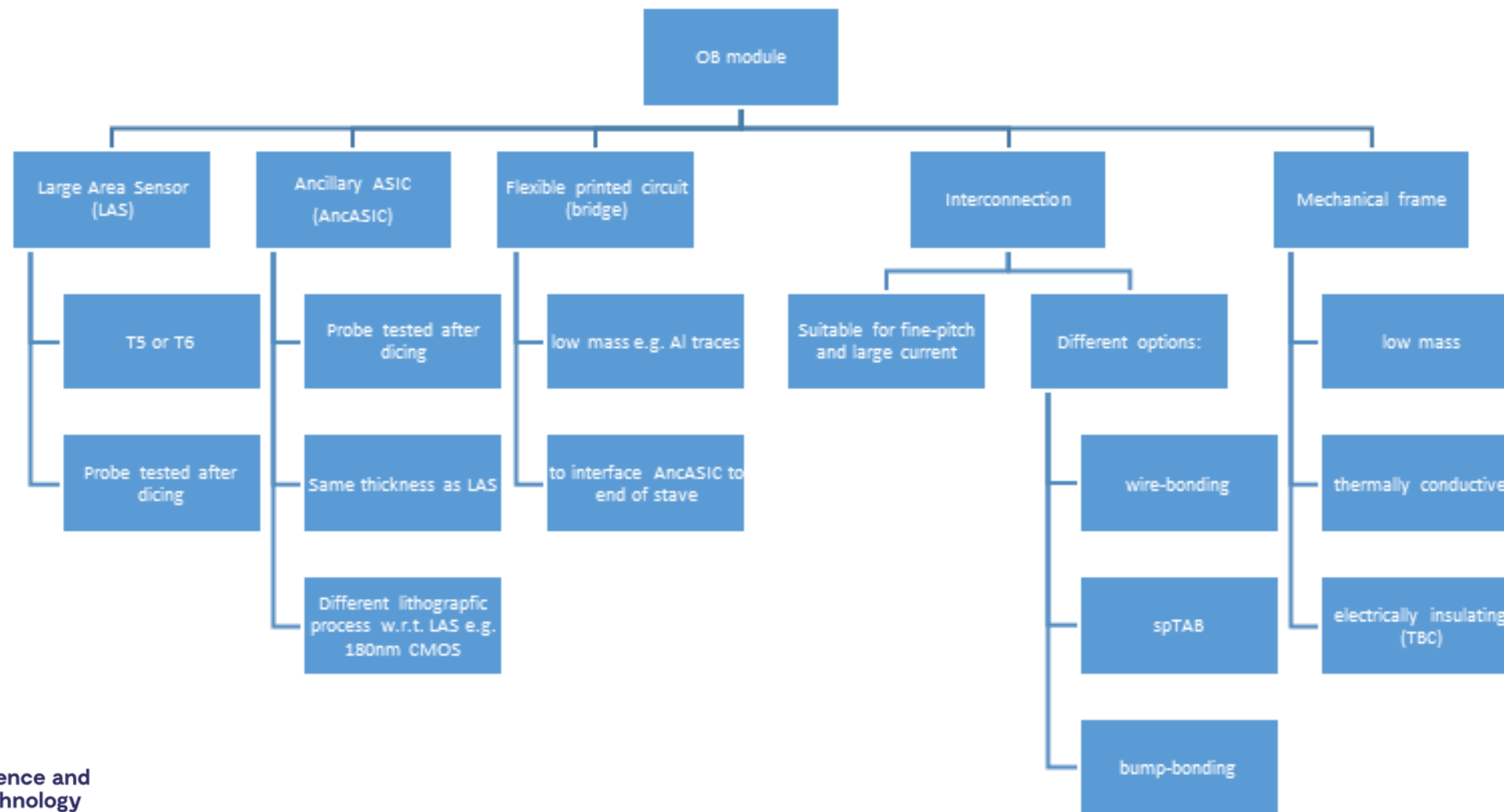
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Outline

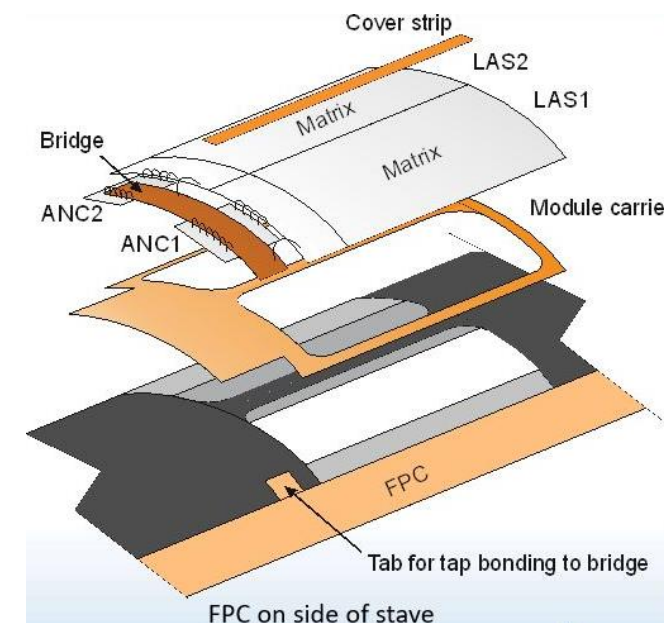
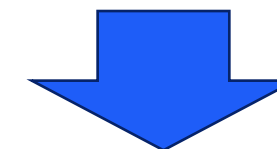
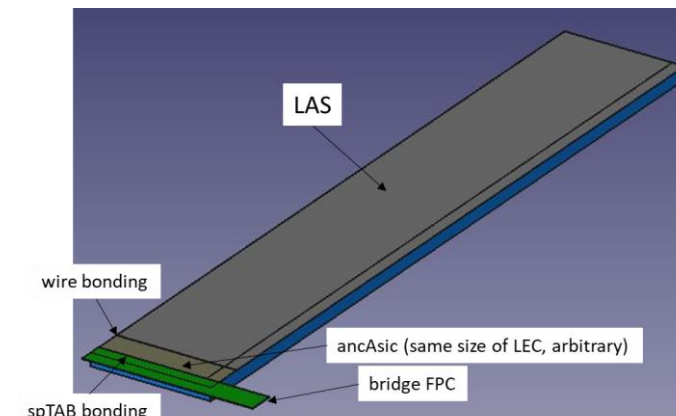
- Introduction;
- Product break-down structure (PBS);
- Requirements prioritisation;
- Prototyping;
- Other miscellaneous points;

PBS



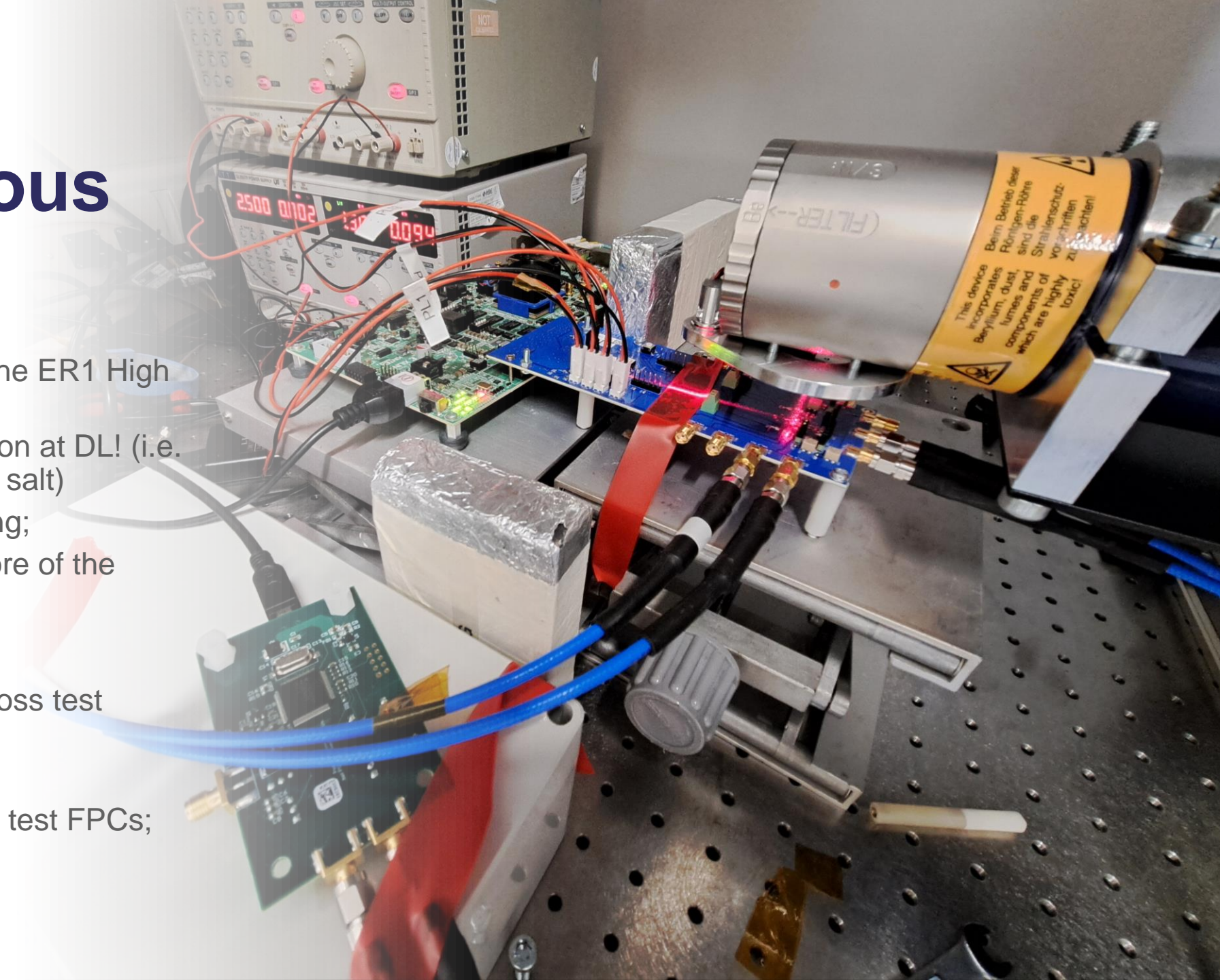
Prioritised requirement list

Requirement	Priority
Respect a logical boundary to enable electrical testing i.e. to group units of (LAS + AncASIC + Bridge)	MUST
Have a low mass	MUST
Be thermally efficient	MUST
Easy to handle	SHOULD
Componets to be aligned to 10's of um accuracy	SHOULD
Encapsulation of interconnection (e.g. encapsulation fo wire-bond)	COULD
Push the ultimate granularity i.e. 1 LAS + 1 AncASIC + 1 Bridge per modules	COULD
To be bent during module assembly	WILL NOT



Other miscellaneous points

- Irradiated up to 10MRad the ER1 High Speed module from RAL:
 - Very first TID irradiation at DL! (i.e. take it with a pinch of salt)
 - Data analysis on going;
 - Would to irradiate more of the same DUT;
- Asked WP2 to get BabyMoss test system
 - Stuck again like in MLR1?
- LANL to join WP3 effort to test FPCs;





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Thank you

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