



Science and  
Technology  
Facilities Council

# OB Modularity: breaking the ice

# Why?

Goal: to reduce complexity by breaking a system into sub-units.

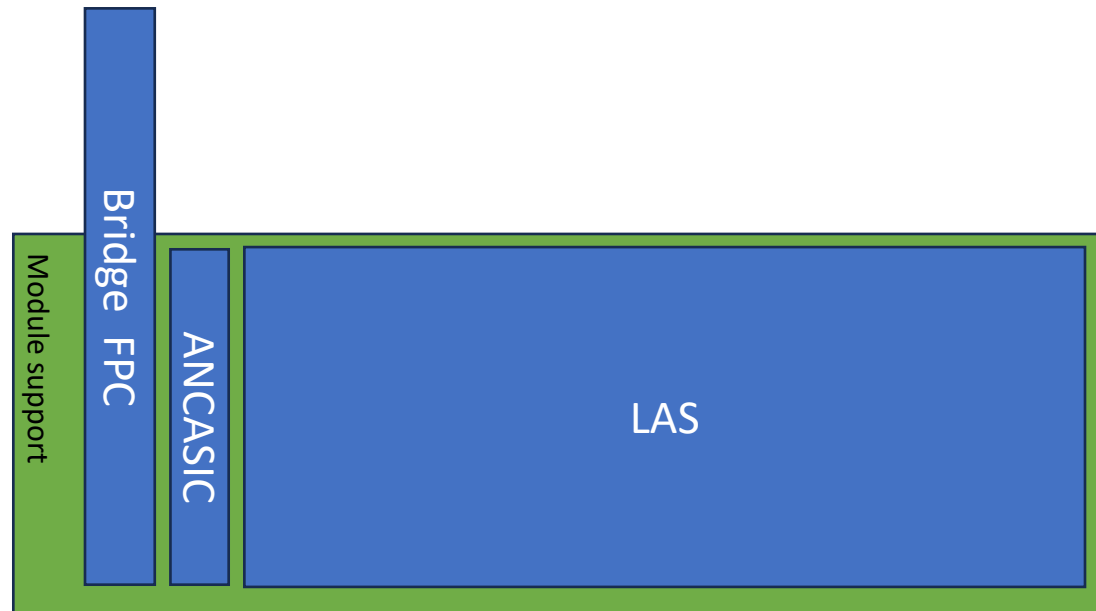
## Benefits:

- An increase in predictability of manufacturing rate: (i.e. keep project on track)
  - Simplification of the assembly of the final product:
    - Sub-units are pre-assembled and pre-tested and mounted/interlinked in the final product;
    - Defects in sub-units are detected earlier in the production flow:
      - Easier to re-work problem;
      - Discard faulty components sooner and avoid wasting time;
    - Reduced debugging complexity on the final product;

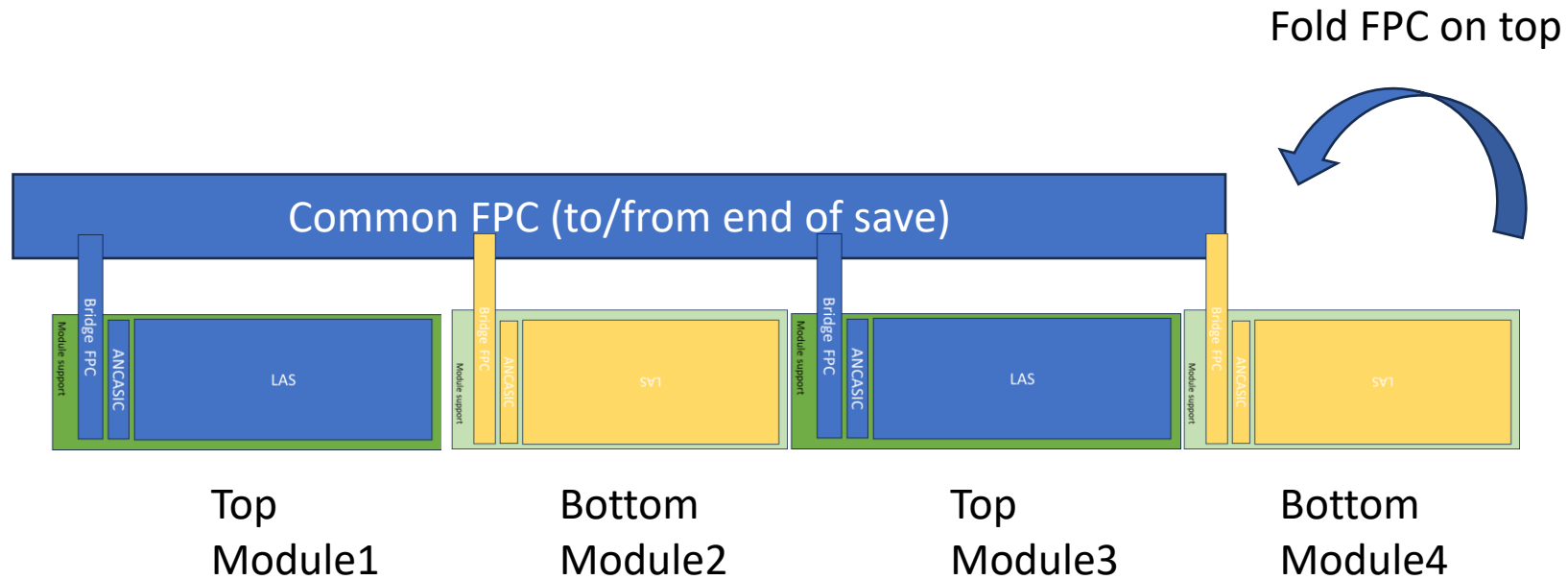
# How?

Goal: to identify coherent sub-units from a functional prospective, and shape it into a design-for-manufacturing unit.

## OB module?



# Sketch of modularity on OB L4 1/4-stave



# Conclusion

- Thoughts on modularity have been presented.
- Do we (OB community) think that modularity is important?
- If so, how do we achieve it?