



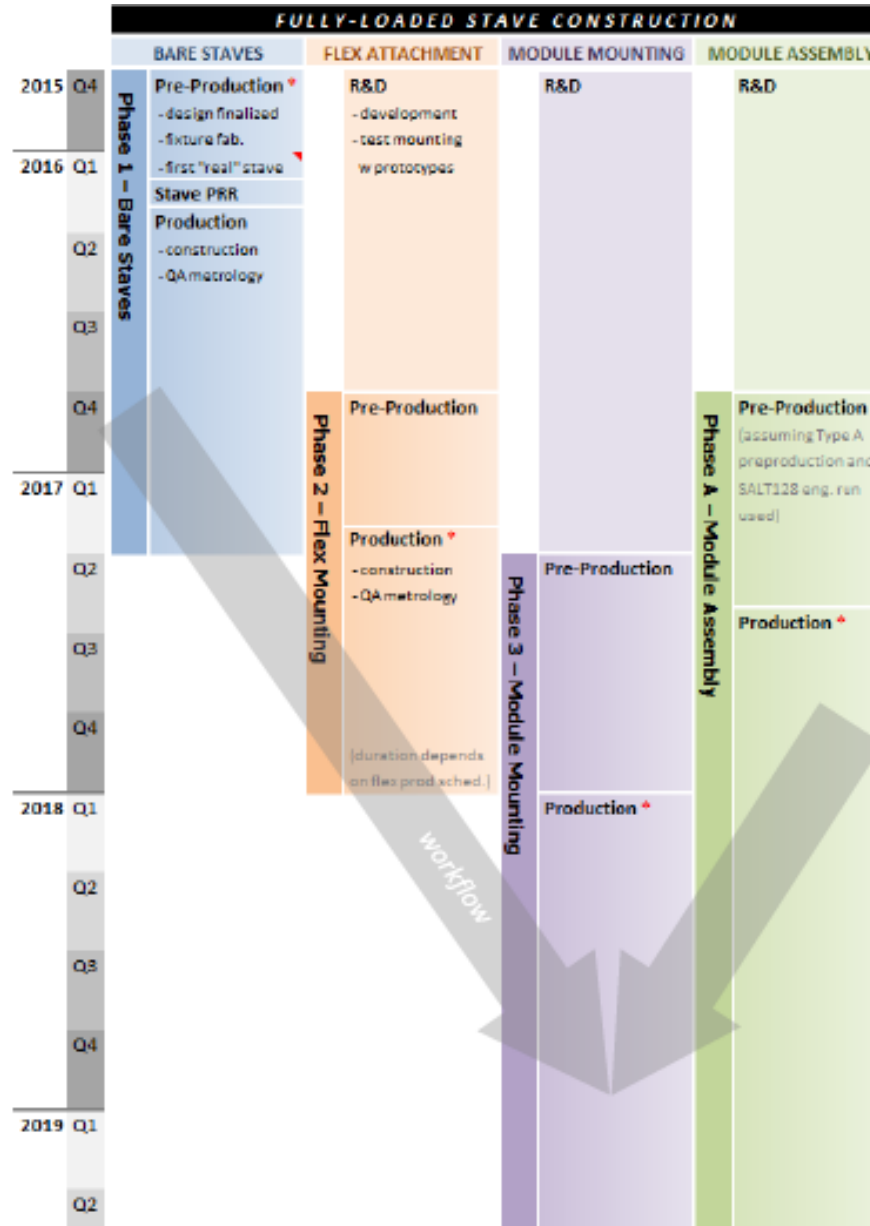
UT schedule:
transition to construction & construction
plans

Marina Artuso, Syracuse University

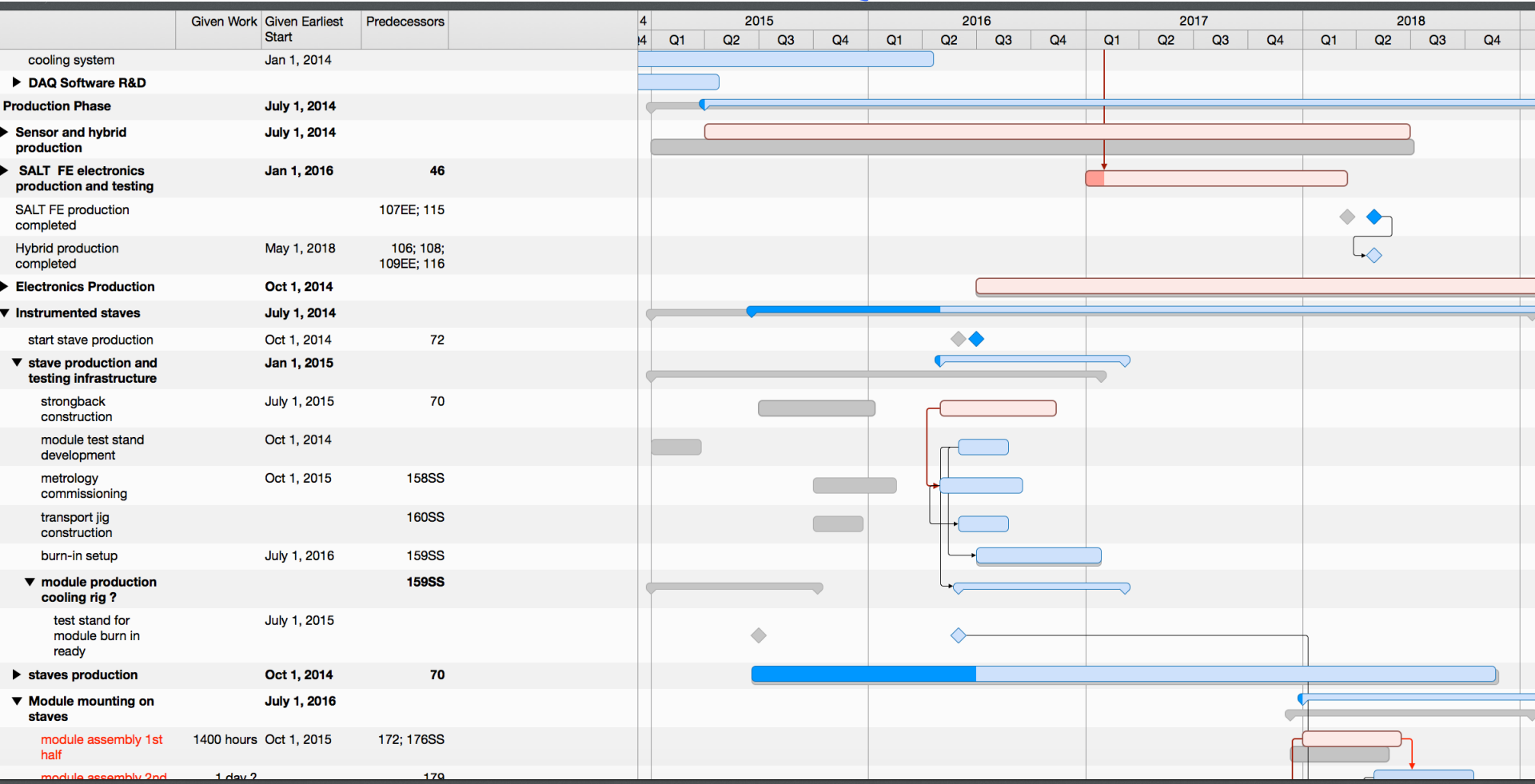


How subprojects are connected

From last year plan of transition to construction



Critical path



Remarks on SALT

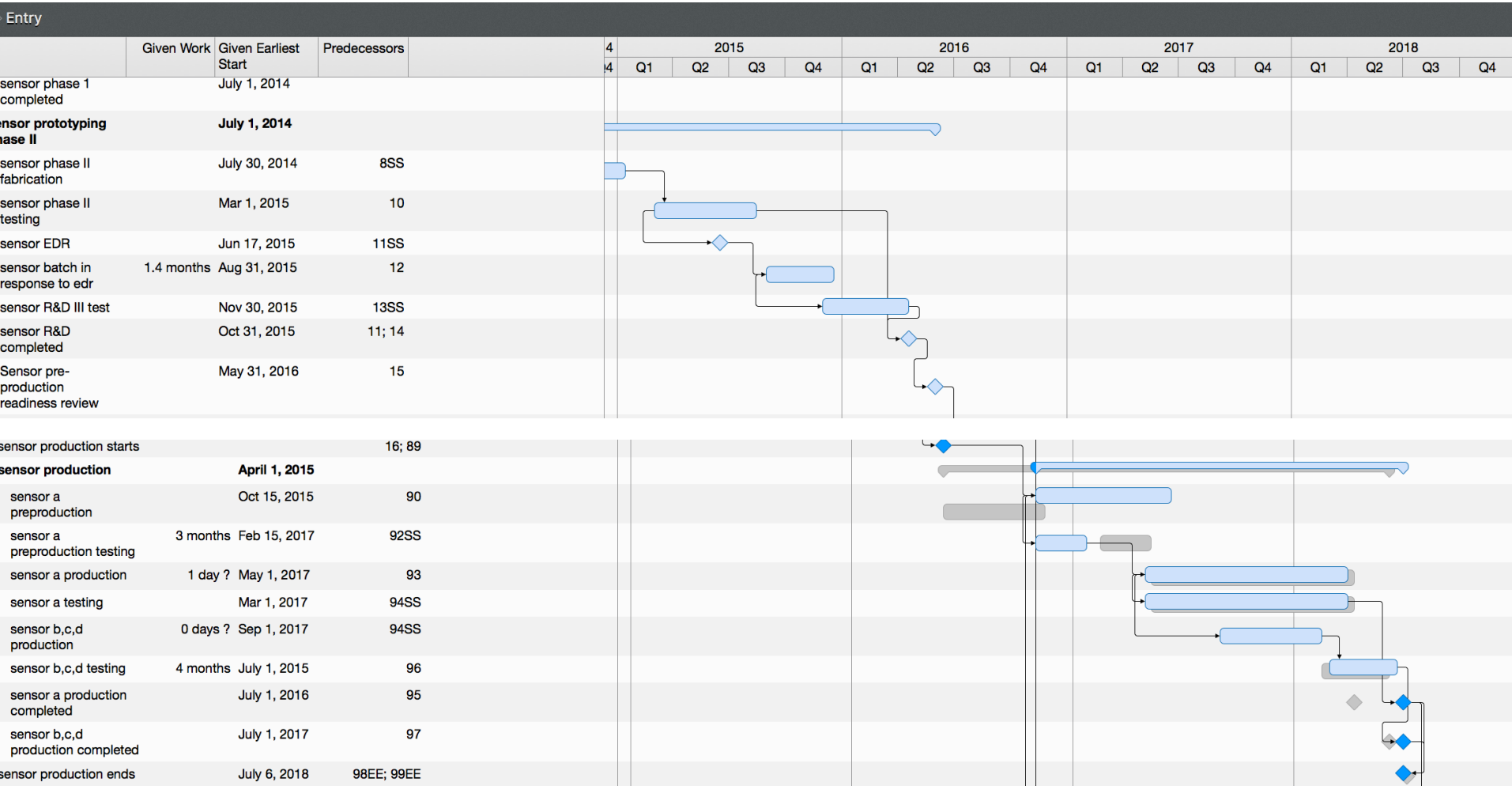
- ❑ To assess:
 - ❑ Building blocks to be added in the final iteration (only rad-hard memory?)
 - ❑ Performance parameters (e.g. power consumption, SEU immunity...)
IRRADIATION plans
 - ❑ Mass production testing plans (key element to determine production timeline)

Note: this remains one of the key schedule drivers

A few key issues

- Production of the staves is starting:
 - check of the risks associated to R&D still in progress (full SALT design, validation of HV/LV distribution, flex& pigtails, hybrids, “slice test”)
 - Definition of assembly procedure, test, and shipment method ⇒ better evaluation of the construction and commissioning times
- Testing program needs to be defined as it is the important time driver (many components to test thoroughly)

WP1a: Sensor



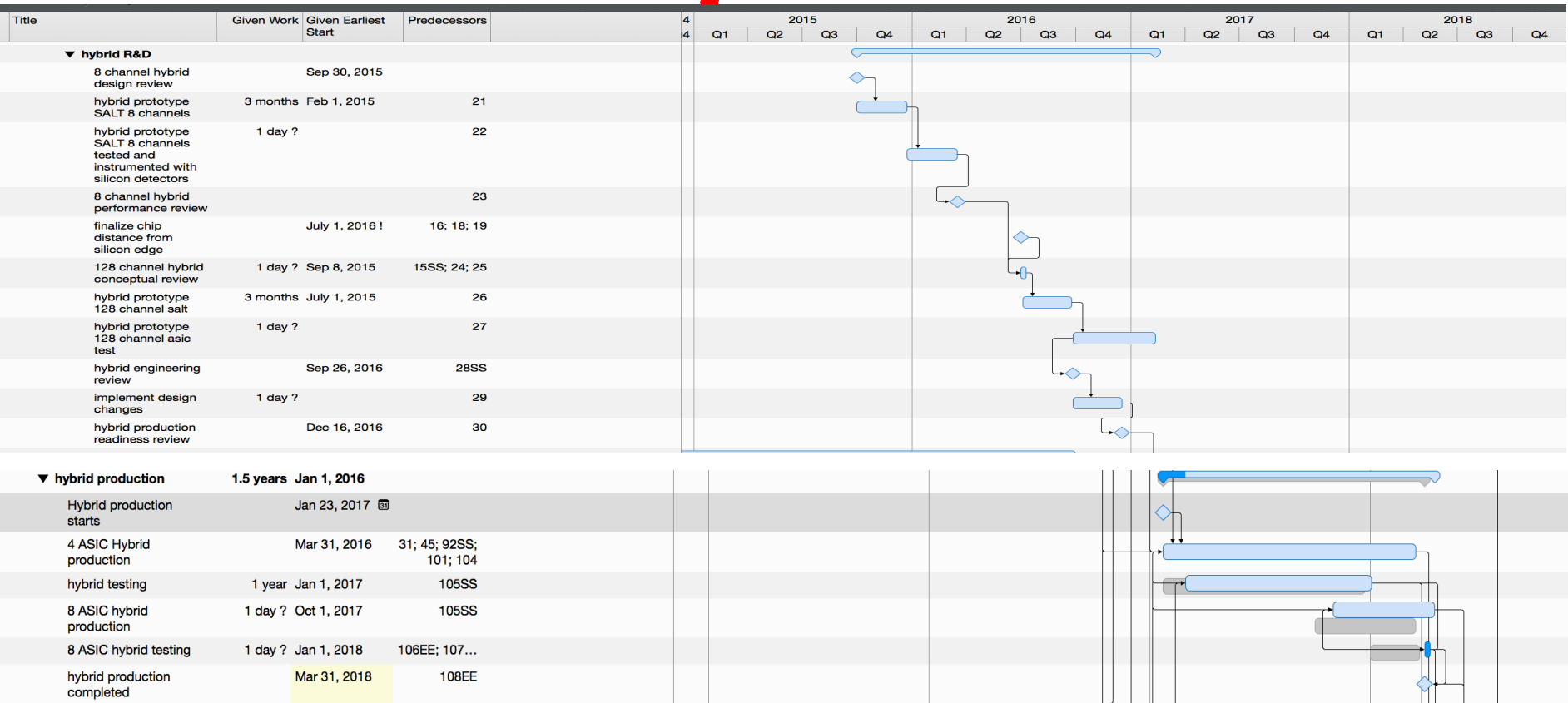
LHCC milestone

WP1b Hybrids

□ Remarks:

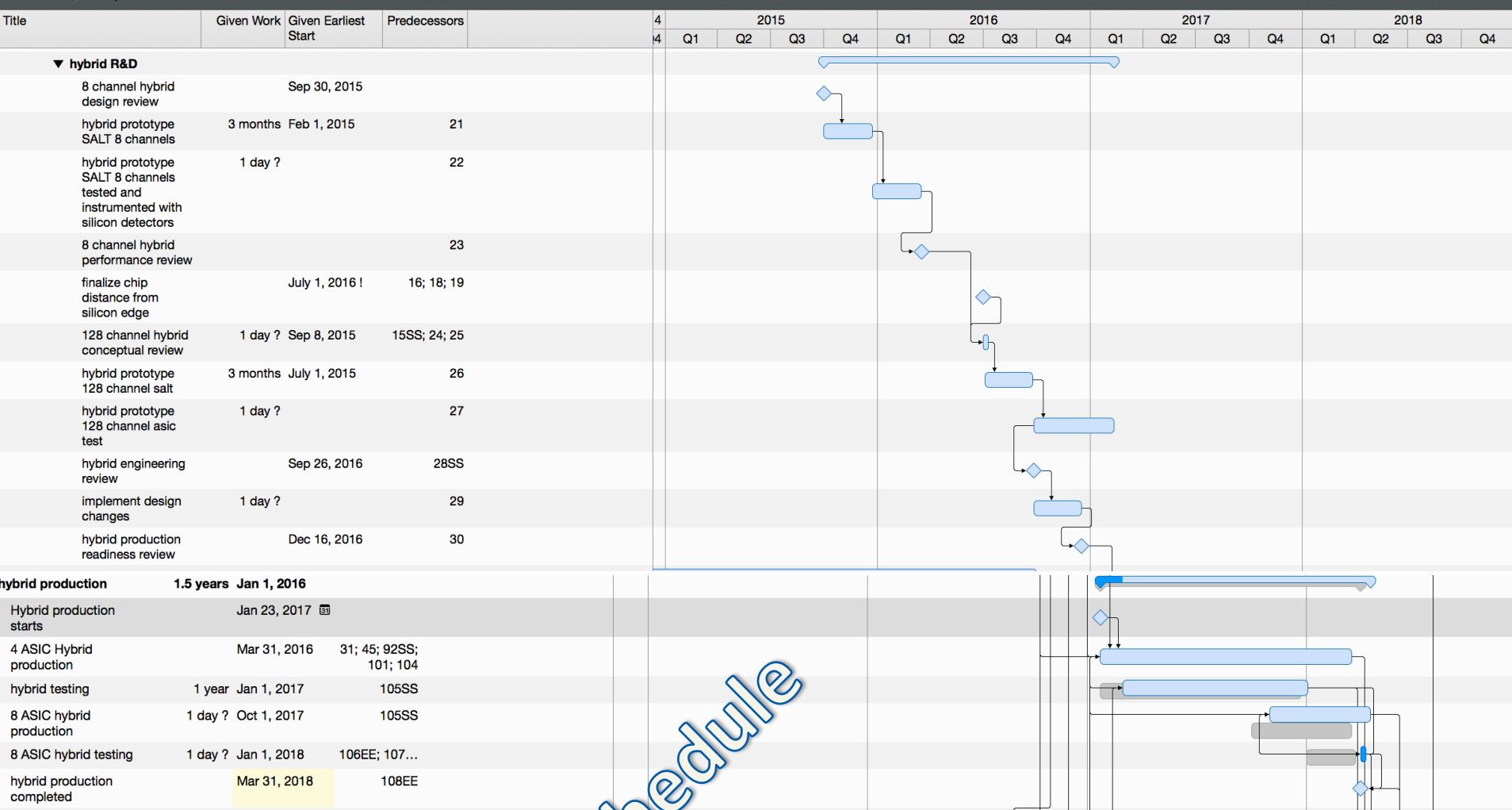
- Prototyping necessary to establish that we have a working system
- Need to be ready well in advance of population of instrumented staves to validate system design

Hybrids



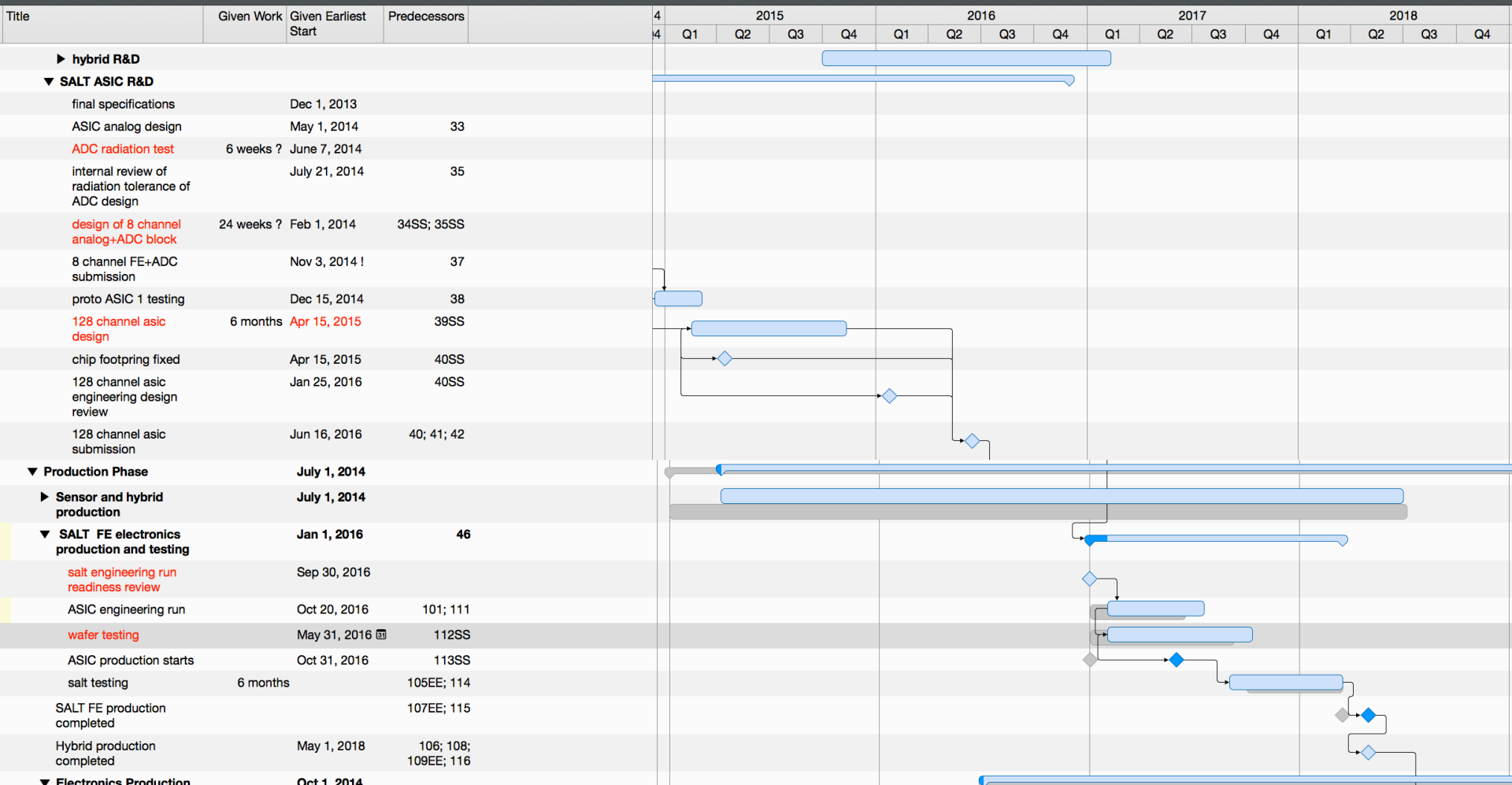
WP2: SALT

- ❑ SALT128 urgently needed for system design validation
- ❑ Concerns:
 - ❑ Complexity (tradeoff between complexity of digital and power consumption)
 - ❑ New technology: radiation effects
 - ❑ Performance with chosen powering scheme



Old salt schedule

LHCC milestone:
modules completed
May 2018



WP3: Electronics

- ❑ Three branches:
 - ❑ Flex cable
 - ❑ Near detector electronics:
 - ❑ Data Combiner boards & backplanes
 - ❑ LV distribution boards

