

ILD assembly timeline

2017/5/16

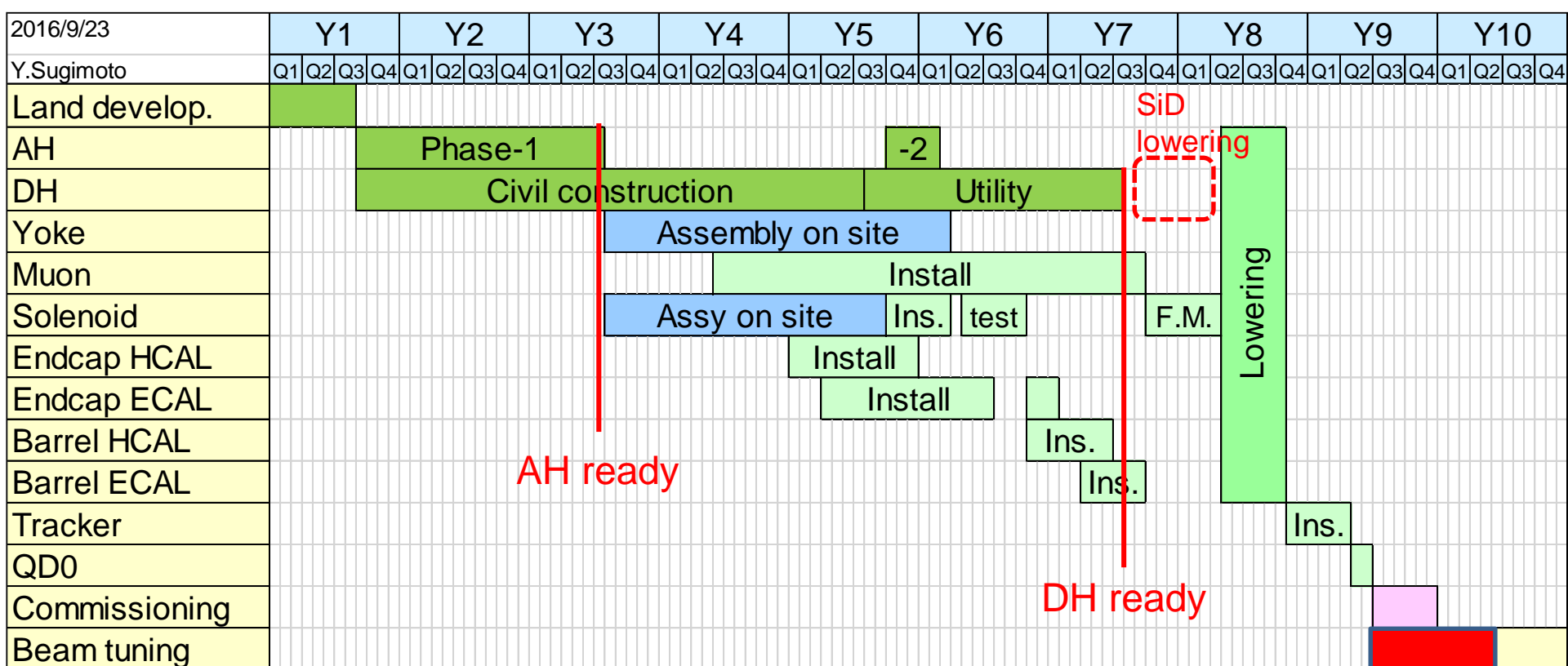
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Staging impact

- Staging scenario starting from $E_{\text{CM}}=250$ GeV is being discussed
- Accelerator construction period could be shorter than 10 years
- Can we make detector construction period shorter than 10 years?

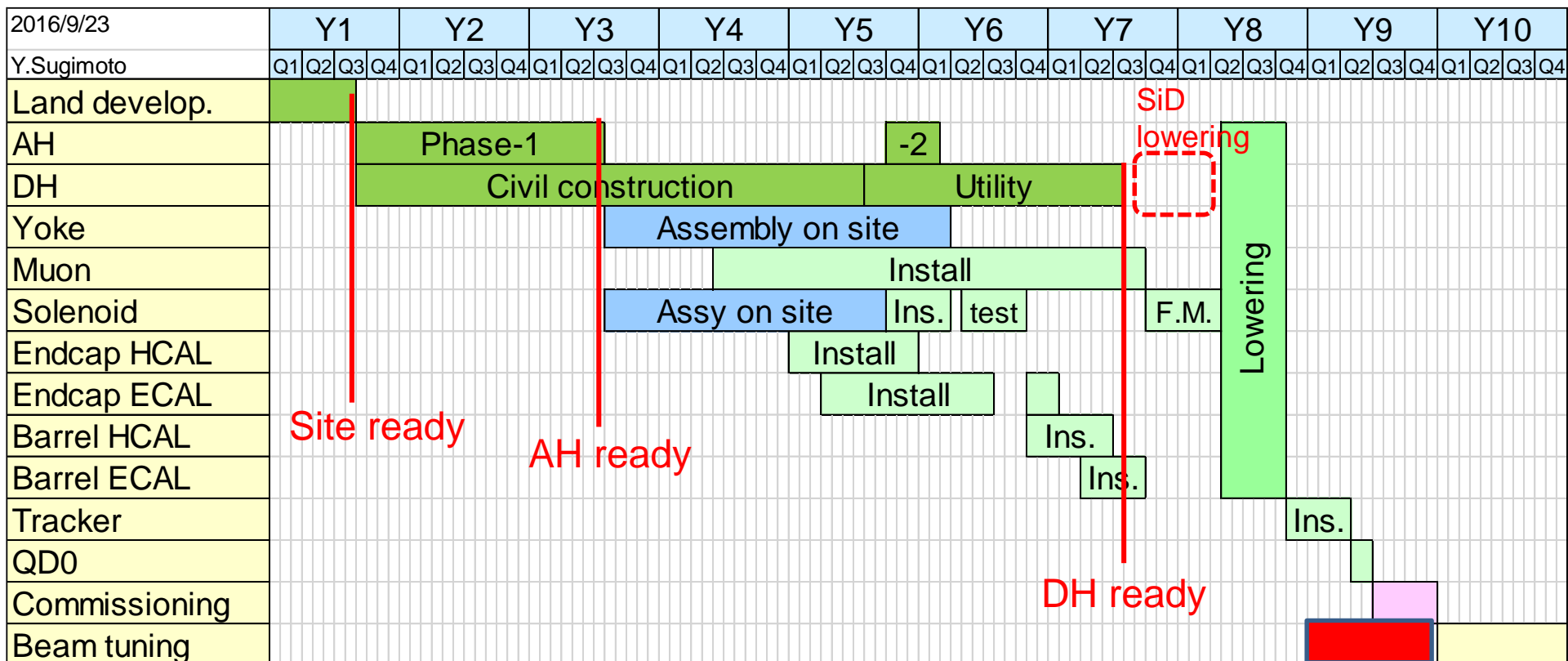
0.5 year earlier commissioning

- If occasional access to the detector during beam commissioning is possible, 0.5 year earlier beam commissioning is acceptable



1 year earlier commissioning

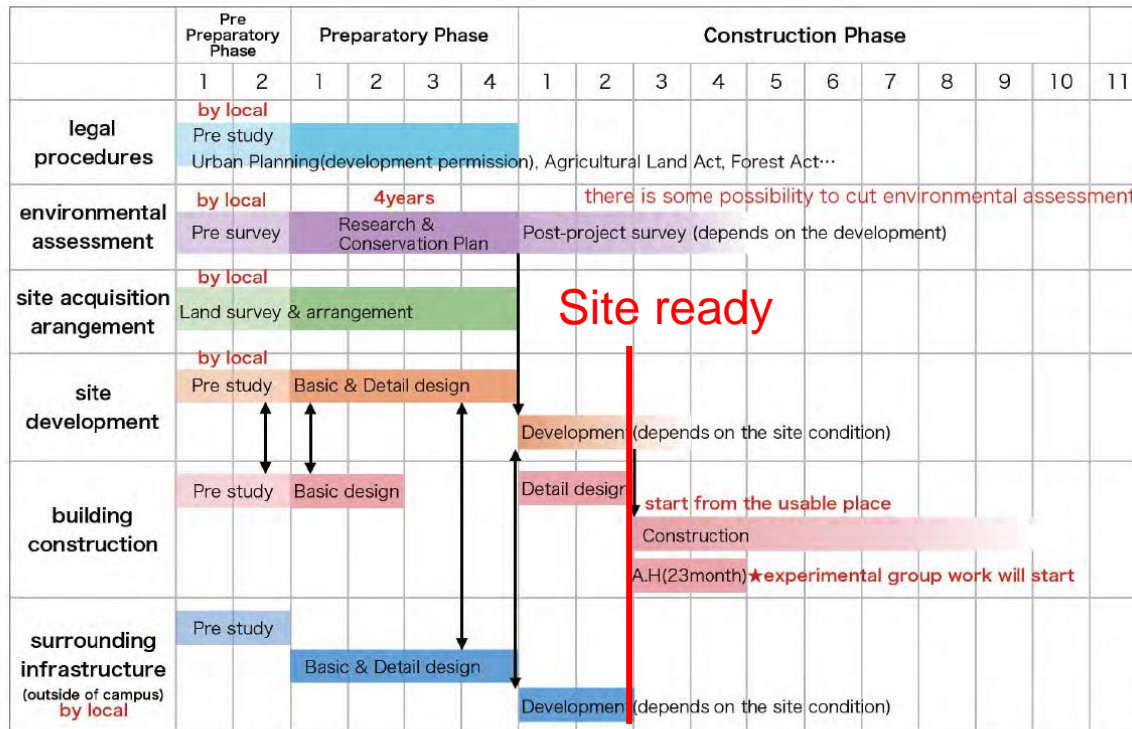
- If the beam line is shielded (by SiD?) by the end of Y8, 1 year earlier beam commissioning is acceptable



Critical path

- There is no way to shorten the detector construction period after DH completion
- If land development is delayed by 1.5 y, completion of DH construction and ILD assembly would be delayed by 1.5 y (Accelerator construction will be also delayed)

IP campus schedule(draft)



From slide by Tokiko Onuki

※all include the contract procedure ※A.H. schedule is from change request NO.ILC-CR-000R

Conclusion

- 0.5 year earlier beam commissioning will give very little impact on ILD assembly scenario
- 1 year earlier beam commissioning would require earlier roll-in of SiD or dedicated radiation shield around the IP
- Consistent timeline including CFS, accelerator (ML, DR, RTML), and detector assembly is necessary