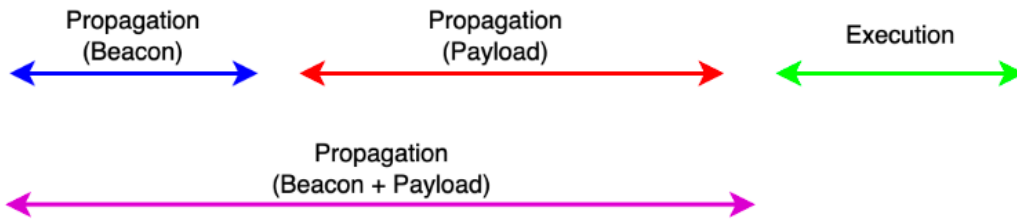# Notes from slot restructuring session at berlinterop 2025
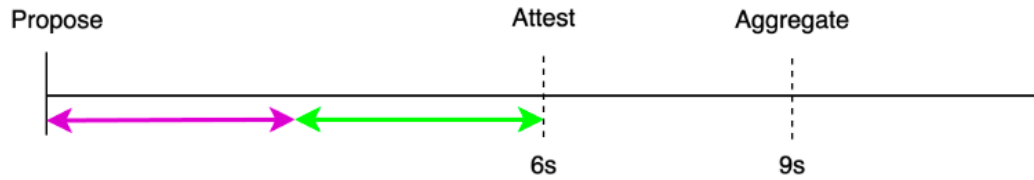
- Alex gave a quick overview of slot and sub-slot timings
- Jacek gave some context on sub-slot rebalancing of timings
  - See this PR: https://github.com/ethereum/consensus-specs/pull/3433
- Spent most of our time reviewing this document from Francesco; he and Ansgar discussed nuances to the interplay of propagation, execution, and various proposals that would impact slot structure with the participants to refine the digram and raise implementation complexity that isn't present here
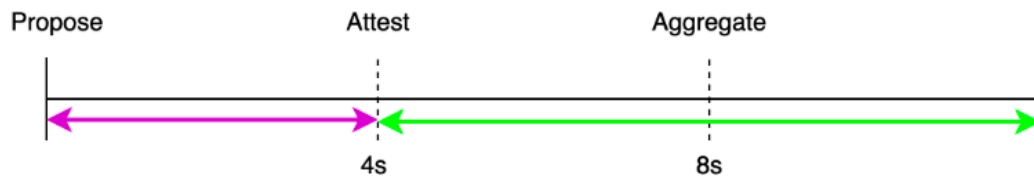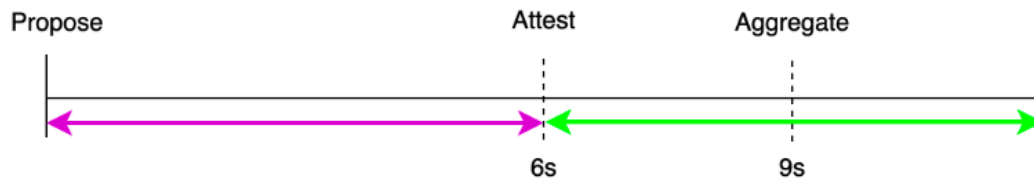
Propagation (Beacon) ← → **Propagation (Payload)** ← → **Execution** ← →

Propagation (Beacon + Payload) ← →

Slot today

Propose — Attest — Aggregate

4s — 8s

Adjust slot subdivision

Propose — Attest — Aggregate

6s — 9s

Delayed execution

Propose — Attest — Aggregate

4s — 8s

Adjust slot subdivision + delayed execution

Propose — Attest — Aggregate

6s — 9s

ePBS

Propose Beacon Block — Attest — Reveal Payload — PTC

3s — 9s
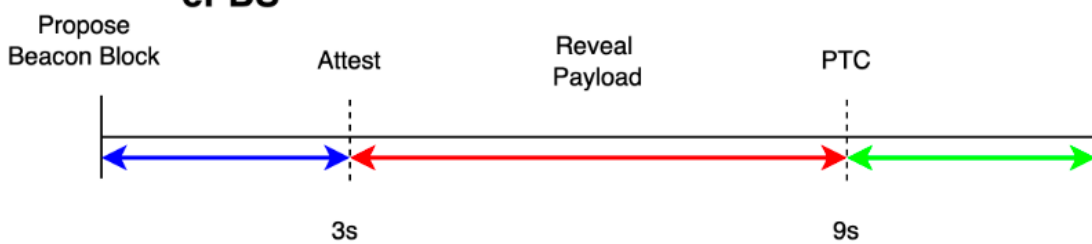
- Dankrad wrapped the session by discussing the benefits of shorter slots; summary here from Barnabé:
  - better markets (DEXes, oracles, feed less stale data to the chain)
  - makes big things smaller (big blocks ➜ smaller, more competitive builder markets)
  - makes interop better (faster + cheaper)
  - more leaders per second => higher CR

Action items/Outcomes:
- Address open questions and merge https://github.com/ethereum/consensus-specs/pull/3510
  - Allows easier spec work to reason about timing questions
- Adjust language in spec so clients MUST attest as soon as block is validated, and wait until 4s
  - No PR right now

Consensus leaned towards doing the rebalancing work ASAP, even Glamsterdam regardless of other EIPs. Shorter slot times also have interest but should happen in context of other proposals. We need to start thinking more seriously about shorter slot times now if we want to target Glamsterdam or H/Bogota fork.