Surface Transportation Weather Decision Support Requirements (STWDSR)

Maintenance Decision Support System: Development Plan Options

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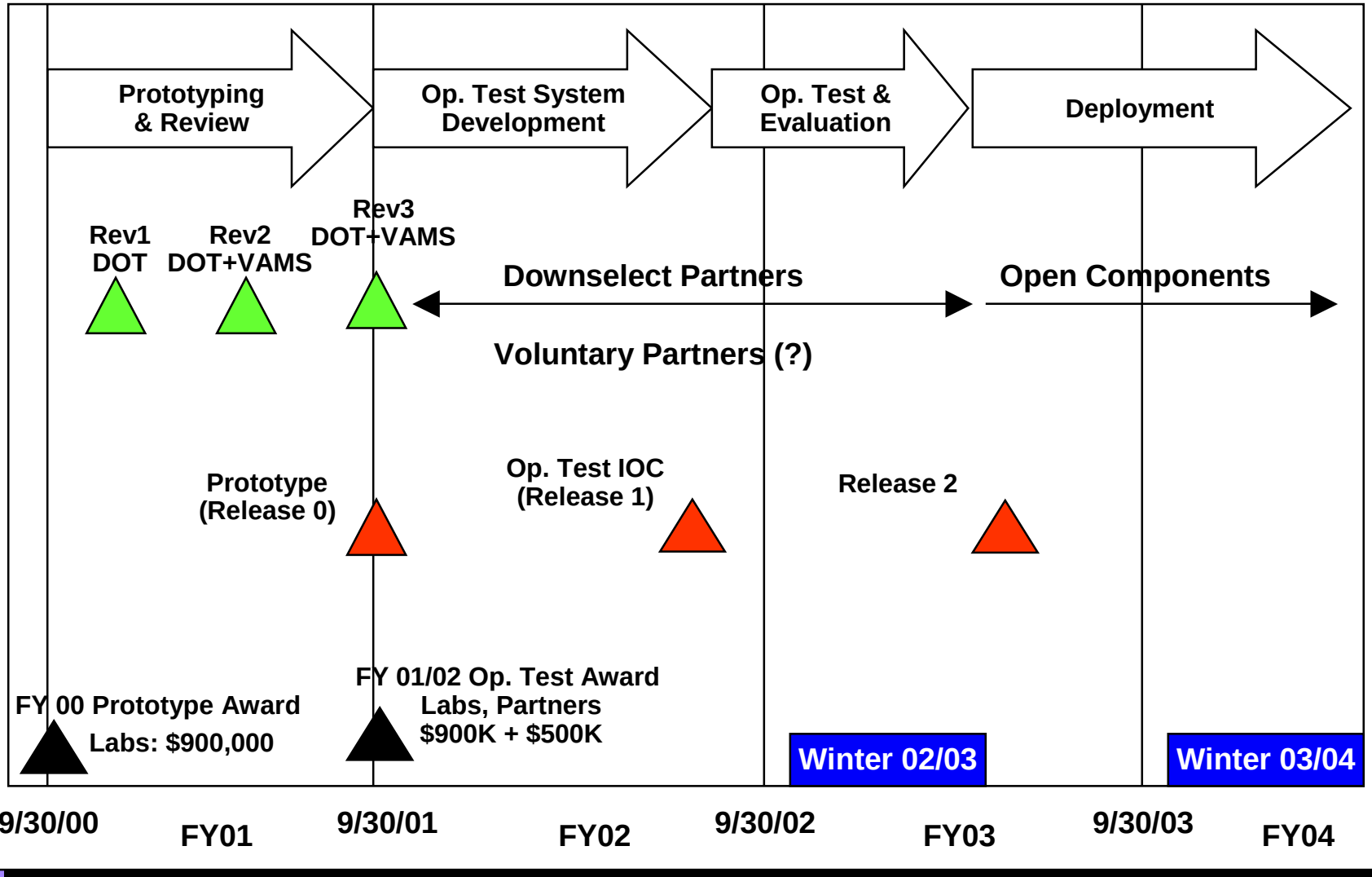
- Axioms
- Options to complete development cycle of the Maintenance decision Support System (MDSS)
  - Risks
  - Costs

Axioms

- FHWA commitment to <u>one</u> cycle (through ops test)
- Deployment <u>will</u> be through private vendors
- Labs' products will be available "openly" and they will retain IP
- Vendors will retain their IP
- Bayh-Dole rules (35 USC 200 and 37 CFR 401)

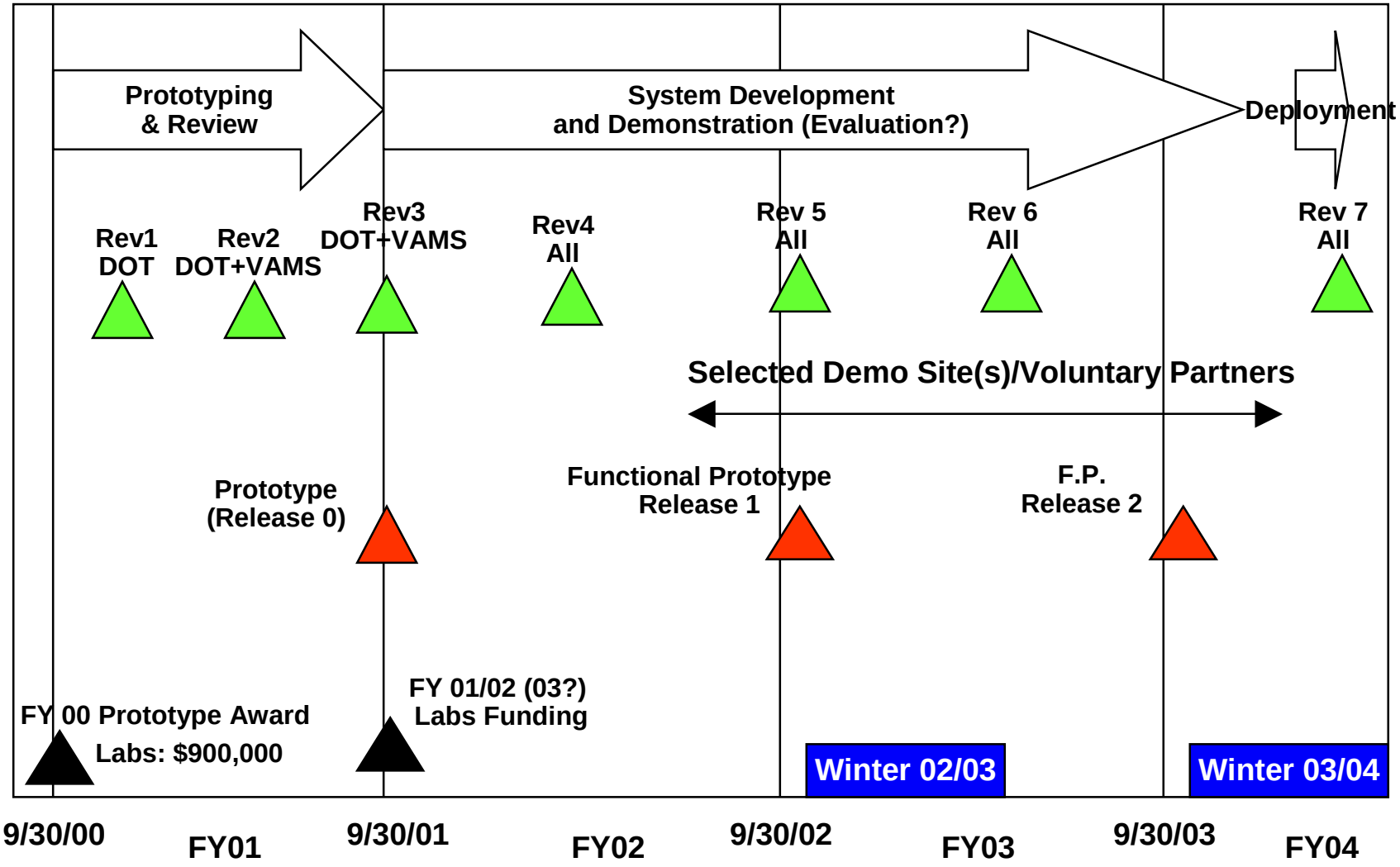
Option A: Current Plan



Option A: Attributes

- Pro
  - Fastest possible track to deployment
  - Early, real integration with VAMS
- Con
  - Schedule/performance risk of early IOC
  - Minimum time for RFA response
  - Deployment advantage to awardees
- Costs
  - As planned for labs ($900K) and partners ($500K)
    - # partners option
  - No added review costs (DOTs) planned

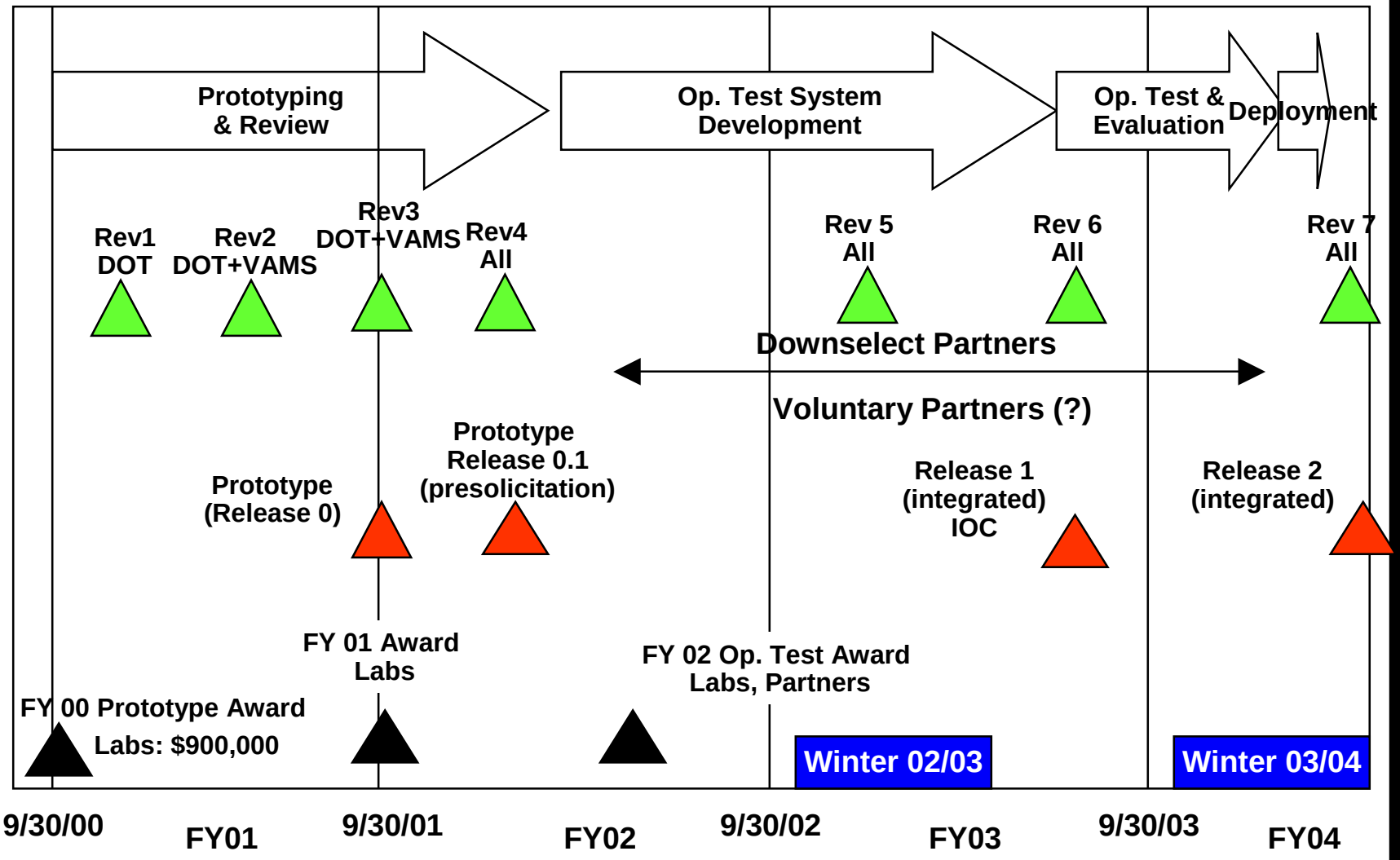
Option B: Extended Demonstrations



Option B: Attributes

- Pro
  - Extended development, more mature and integrated Labs' releases
  - No real-IOC pressure
  - All VAMS (if not all DOTs) brought along equally
- Con
  - Avoids real integration issues with VAMS
  - Requires end-end, but stovepipe, demo system
- Costs
  - Extended Labs' costs
    - # demo sites option
  - Added review costs (DOT funding etc.)

Option C: Extended Op. Test



Option C: Attributes

- Pro
  - Extended development, less risk at IOC
  - Gain real integration experience
  - More mature Labs' products for all VAMS
- Con
  - Downselect excludes some participation
  - Advantage to selected VAMS
- Costs
  - Extended Labs' (partners?) costs
    - # ops test sites option
  - Added review costs (DOT funding etc.)