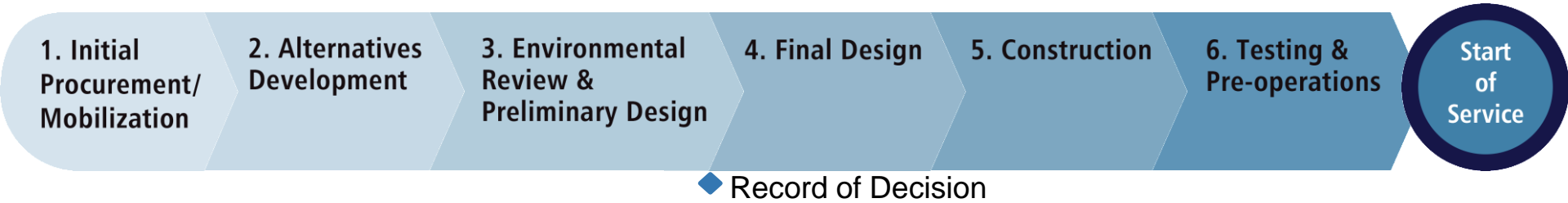




SOUND TRANSIT

Reducing Project Delivery Times

Capital Committee, May 12, 2016



1. Initial
Procurement/
Mobilization

2. Alternatives
Development

3. Environmental
Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- Assign/hire project staff
- Procure environmental/preliminary engineering consultant

1. Initial
Procurement/
Mobilization

2. Alternatives
Development

3. Environmental
Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- Alternatives analysis
- Scoping
- Board identifies alternative(s) for environmental review

1. Initial
Procurement/
Mobilization

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Development

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Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- Conceptual engineering
- Draft EIS
- Board identifies preferred alternative
- Complete preliminary design
- Final EIS
- Board selects final project to be built
- Federal agency issues Record of Decision (ROD)

1. Initial
Procurement/
Mobilization

2. Alternatives
Development

3. Environmental
Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- Begin final design
- 60% design, baseline project
- Obtain permits, acquire property
- Project delivery & contract packaging decisions
- 90% design, final review and preconstruction
- 100% design, release for construction

1. Initial
Procurement/
Mobilization

2. Alternatives
Development

3. Environmental
Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- Groundbreaking
- Construction contract procurement
- Maintain adherence to safety and quality requirements
- Monitor potential construction impacts
- Provide construction mitigation
- Implement traffic control plans
- Adhere to permit requirements through Certificate of Occupancy

1. Initial
Procurement/
Mobilization

2. Alternatives
Development

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Review &
Preliminary Design

4. Final Design

5. Construction

6. Testing &
Pre-operations

Start
of
Service

- System testing
- Safety certification

**1. Initial
Procurement/
Mobilization**

**2. Alternatives
Development**

**3. Environmental
Review &
Preliminary Design**

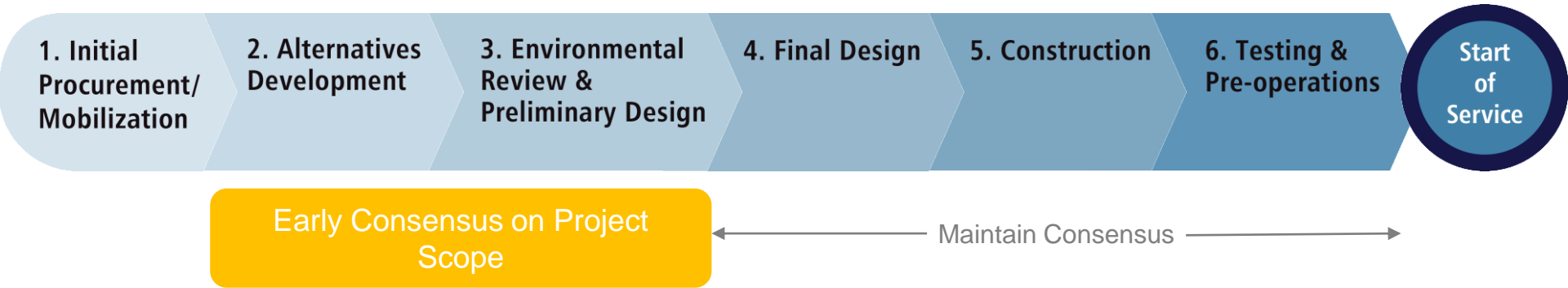
4. Final Design

5. Construction

**6. Testing &
Pre-operations**

**Start
of
Service**

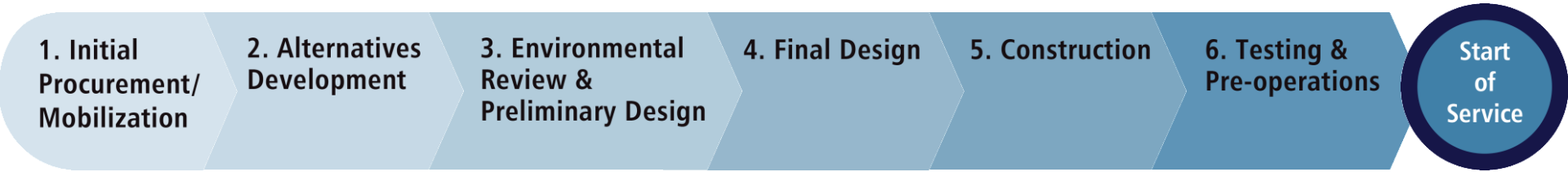
Potential Opportunities



- Establish inter-agency project management structure
 - Achieve early understanding and agreement by participating parties to project goals as established in the ST3 plan
 - Use term sheets to identify the preferred alternative at the completion of EIS scoping and commit to timely decision making
- Obtain Interstate ROW use concurrence from WSDOT and FHWA earlier
- Establish a transparent schedule to drive timely decision making



- Establish standing committee to make early decisions on alternative delivery methods
- Better utilize alternative procurement methods to compress the delivery time
- Begin procurement of FD prior to completion of PE
- Consider feasibility of combining PE and FD contract, where appropriate



Streamline Permitting

← Design Review → ← Inspection →

- Adopt fast track for land use permit decisions issued by local jurisdictions within 120 days
- Convene task force groups to inform process
- Develop model set of term sheets
- Establish criteria for permit approvals
- Establish for all partners a project development and permitting dashboard

Contract	Agency	Permit Type	Comment
U210 (UWS Utility Relocations)	DPD	MUP	UWS MUP for Temporary Buildings & Staging. Issued.
	DPD	Building Demos	No DPD grading permit required for utility trenching. Issued
	DPD	Building Permit	For UW temporary buildings. Issued
	KC/DNR & SPU	MDA	MDA issued.
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued.
U211 (CHS Demolition and Remediation)	DPD	MUP	CHS MUP for Staging & Demolition. Application also includes approval for excavation component associated with U230 at CHS location. Issued
	DPD	Building Demos	Issued
	DPD	Building Permit for Shoring/Excavation	No DPD grading permit required for utility trenching. Issued.
	SDOT	Street Use Permit	Owner-Furnished for tensioned tie backs under City ROW. Issued.
	SDOT	Street Use Permit	Contractor-Furnished for street and sidewalk closures. Issued.
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued.
U215 (I-5 Undercrossing)	DPD	MUP	MUP for Staging (U215) & Grading (U230). Application also includes excavation component associated with U230 at Pine Street. Issued.
	DPD	Building Permit for Temporary Field Offices	Contractor-Furnished. Issued.
	SDOT	Street Use Permit	For tiebacks under City ROW. Owner Furnished. Tiebacks de-tensioned afterwards. Issued.
	KC/DNR & SPU	IWP	KC/DNR Industrial Waste Permit. Issued.
	WSDOT	ASL	Issued for Construction work inside WSDOT property on Pine Street I-5 off-ramp and tunnel under I-5 thru June 2011.
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued.

Contract	Agency	Permit Type	Comment
U220 (UWS Excavation and Tunneling)	DPD	2 MUPs	One for Shoreline & Staging (U220) and one for Excavation/Grading (U220 & U250) Issued
	DPD	Technical Noise Variance	Appeal settled. Variance issued. Extended to 6/30/2012
	DPD	Electrical	Issued
	SDOT	PCP	Issued
	DPD	Building Permit for Shoring	Issued
	KC/DNR	MDA	Issued
	KC/DNR	IWP	Issued through 08/17/13.
	ACOE	Section 10	Environmental permits under JARPA and includes U210. Issued.
	DOE	CZMA	Environmental permits under JARPA and includes U210. Issued
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued. Outfalls approved 9/23/09.
	WDFW	HPA	Environmental permits under JARPA and includes U210. Issued. Outfalls approved 9/23/09
WSDOT	ASL	Issued for temporary construction and permanent tunnel facilities under SR-520. ASL issued in 40 year increment, through April 2057.	
U230 (CHS Excavation and Tunneling)	DPD	MUP	U230 excavation at CHS is tied to the U211 MUP. U230 excavation at Pine Street is tied to the U215 MUP. Issued
	DPD	MPPCV	Noise Variance issued through 3/26/14.
	DPD	Electrical	Pending: Currently in Review
	SDOT	PCP	Issued
	KC/DNR & SPU	MDA	KC/DNR MDA Issued.
	KC/DNR & SPU	IWP	Issued
	DPD	Grading	Issued
	DPD	Building Permit	Issued
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued.
	WSDOT	ASL	Issued for temporary construction; permanent tunnel facilities under I-5. ASL issued in 40 year increment, through July 2051.

U240 (CHS Finishes)	DPD	MUP	CHS Finishes. Issued
	DPD	Building Permit	Station: September 2012 West Entry: Anticipate, Spring 2013
	DPD	Electrical	ESD: June 2010
	SDOT	PCP	September 2012
	KC/DNR & SPU	IWP	To be submitted when contractor SWPPP received. Anticipated, November 2012.
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee will be requested. Pending
U250 (UWS Finishes)	DPD	MUP	UWS Finishes & Pedestrian Bridge. Issued
	DPD	Building Permit	Issued. Revised for MTP, approved 7/2/12
	DPD	Electrical	ESD: June 2010
	SDOT	PCP	Phase I, Issued on 7/26/12. Phase II, Anticipated, November 2012
	SDOT	Pedestrian Bridge	Approved by Director and Council
	KC/DNR & SPU	MDA	Issued.
	KC/DNR & SPU	Letter Agreement	Issued for MTP discharge at Triangle parcel
	DOE	NPDES	Revised NPDES permit adding contractor as a co-permittee. Issued 4/18/11
	WSDOT	Pedestrian Bridge	Design approved by NW Region. Letter obtained concurring no air space lease required.
U830 (Systems/Track)	KC/DNR & SPU	IWP or MDA	To be submitted when contractor SWPPP received and type of need established
	DOE	NPDES	On-hold pending receipt of contractor work plans. If needed likely to proceed with contractor as co-permittee
U820, U830, U860			All permits will be contractor-furnished.



Property Acquisition

- Strengthen in-house resources and implement mentoring program for limited specialized disciplines (appraisal, relocation)
- Certify property needs earlier in project design process
- Continue early protective acquisitions of at-risk properties to preserve critical project sites
- Obtain earlier Interstate ROW use approvals from WSDOT and FHWA



Early Consensus on Project Scope

Maintain Consensus

Early Procurement Strategy

Streamline Permitting

← Design Review → ← Inspection →

Property Acquisition



Process improvements on transitions between project phase

The image features a dark grey horizontal banner across the center. On the left side of the banner is the Sound Transit logo, which consists of a white square containing a stylized 'S' and 'T' symbol. To the right of the logo, the words 'SOUNDTRANSIT' are written in a bold, white, sans-serif font. Below 'SOUNDTRANSIT', the slogan 'RIDE THE WAVE' is written in a smaller, white, sans-serif font. The background of the entire image is a close-up of a transit vehicle with a white upper section and a blue lower section, separated by a wavy teal and blue graphic. The vehicle has several dark windows and some small white signs.

SOUNDTRANSIT
RIDE THE WAVE