Item No. __ 8a supp.____
Meeting Date: April 24, 2018

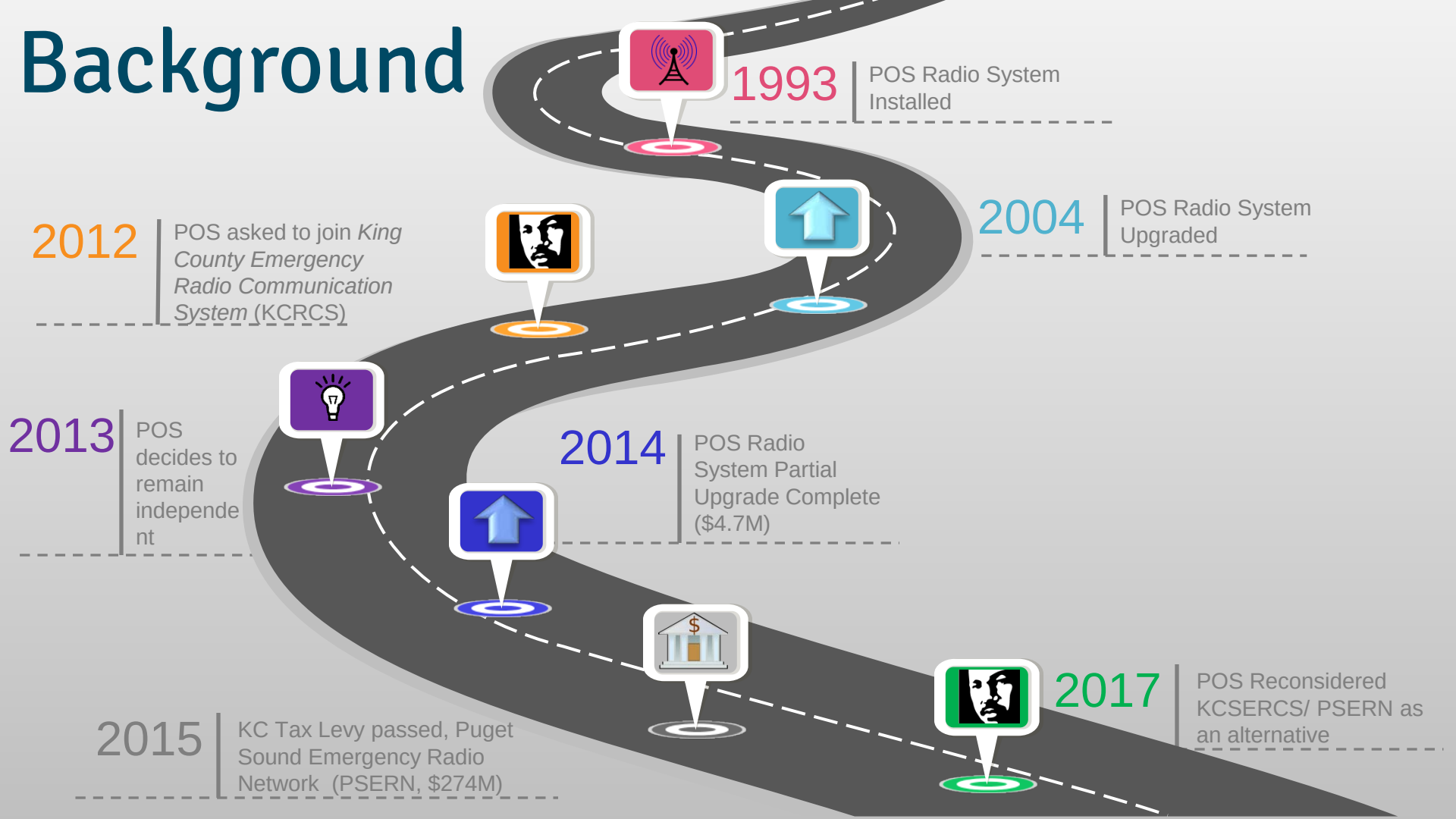
Public Safety Radio System Upgrade

800 MHz Radio System

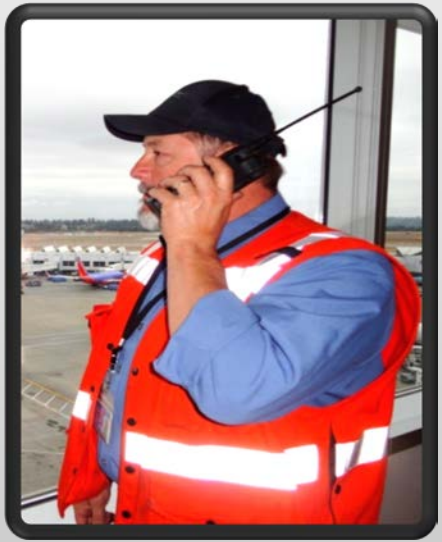
April 24, 2018

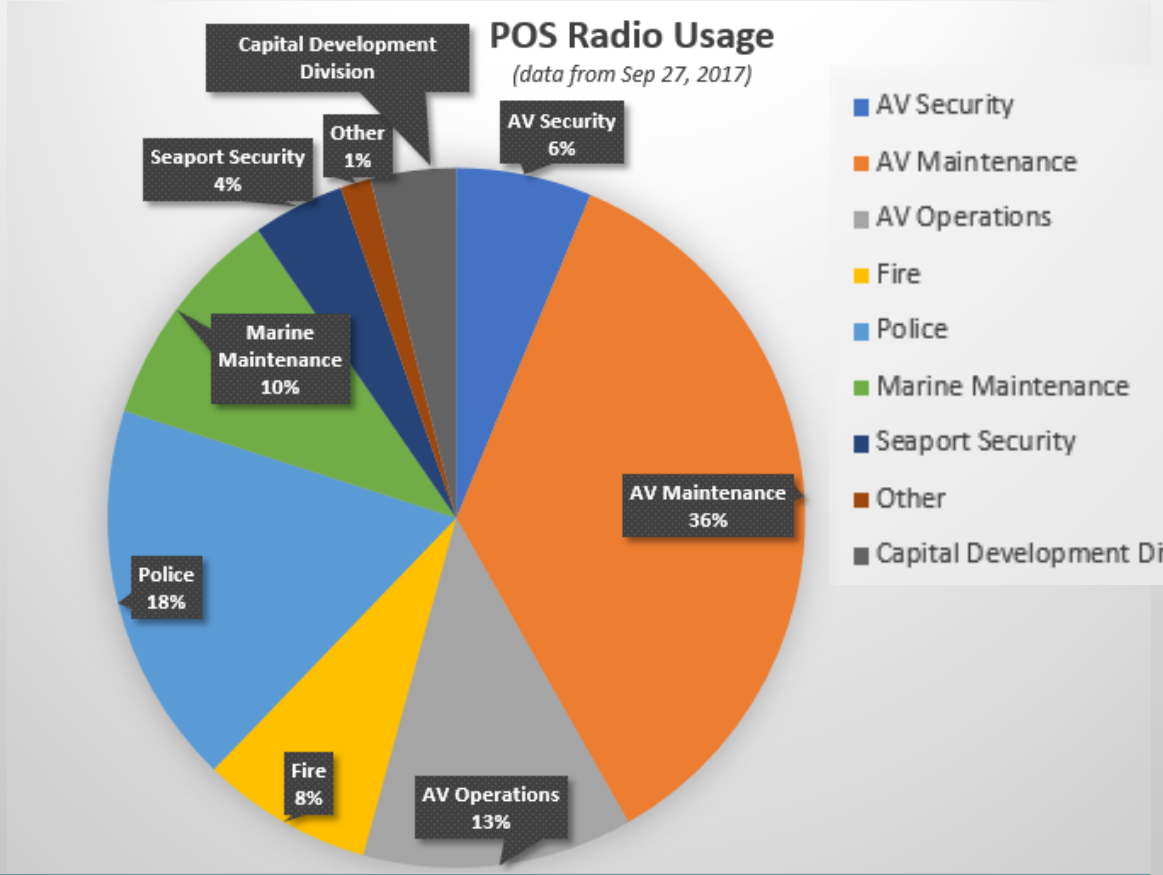
Port of Seattle

Background


1993
POS Radio System Installed
2004
POS Radio System Upgraded
2012
POS asked to join *King County Emergency Radio Communication System* (KCRCS)
2013
POS decides to remain independent
2014
POS Radio System Partial Upgrade Complete ($4.7M)
2015
KC Tax Levy passed, Puget Sound Emergency Radio Network (PSERN, $274M)
2017
POS Reconsidered KCSERCS/ PSERN as an alternative

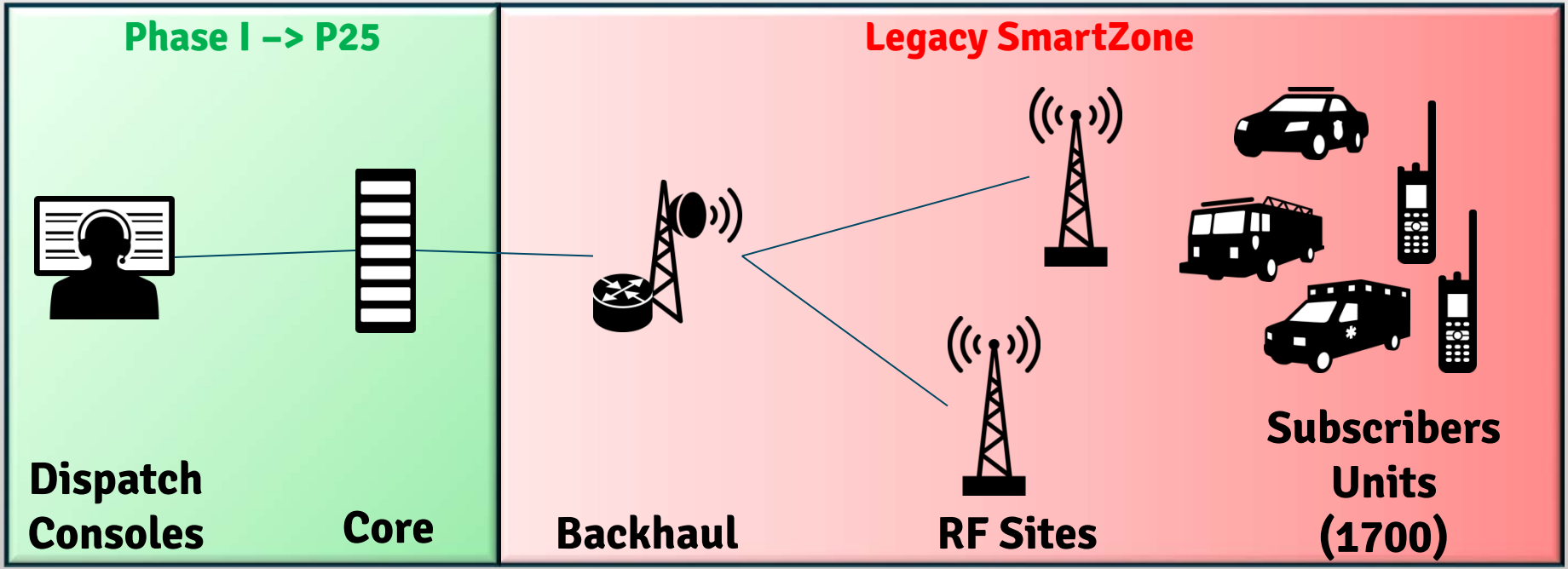
POS User Profile





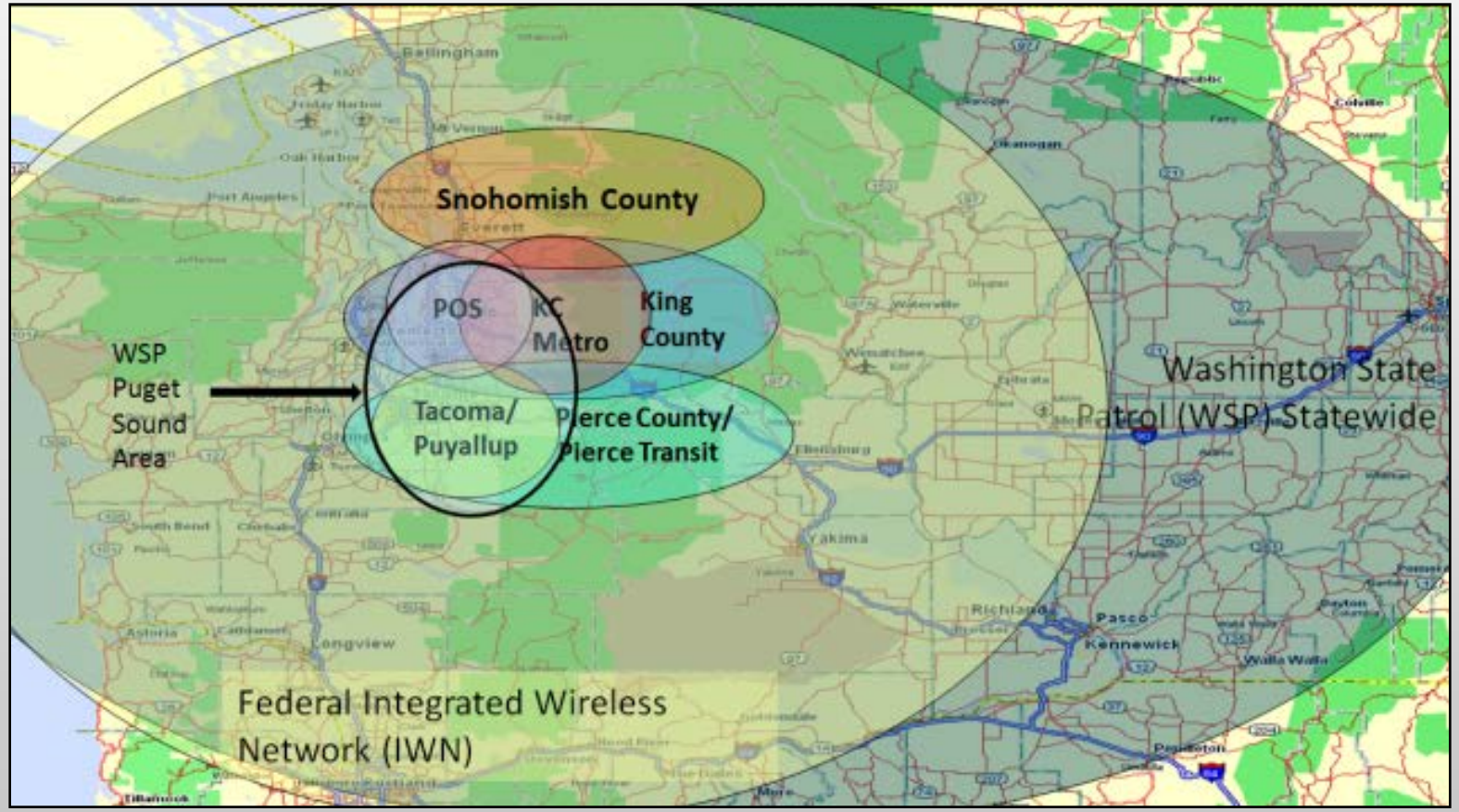
Priority #1 is Public Safety…regardless of operational use profile

End of Life- High Risk



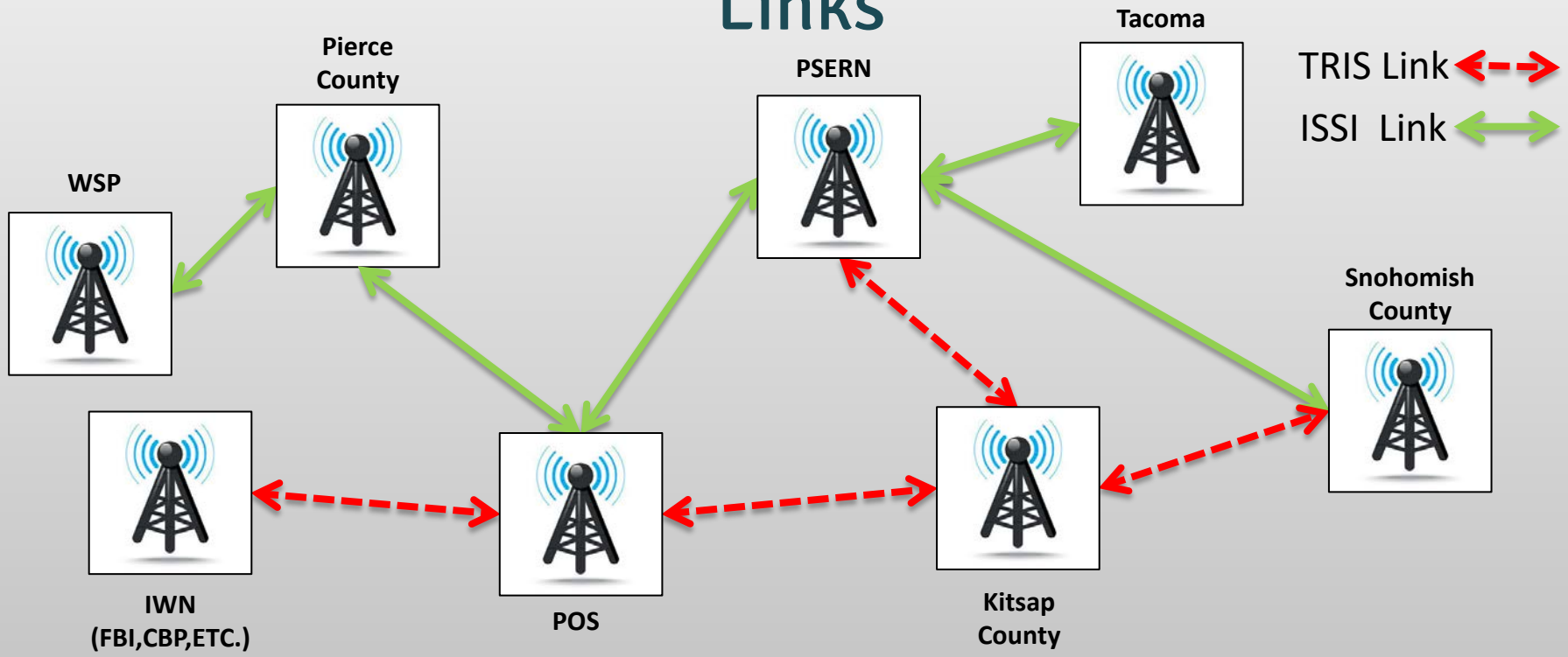
2014
Partial Upgrade Complete

2017-2021
Infrastructure & Handsets Require Upgrade



Full capability with P25 is a must for stable communications & interoperability

Interoperability through ISSI 8000 and TRIS Links



Interoperability with multiple agencies collaborating to build a system of systems

Alternatives

			10-year Cost Estimates
1	**Go to Market** (not recommended)	Pros: Control, competitive advantage, requirements met. Cons: Time, Cost, and Proprietary equipment must be maintained.	$29,000,000 - $37,000,000
2	**Commit to PSERN** (not recommended)	Pros: Interoperability, reduced project LOE, and cost. Cons: Time/ Risk of catastrophic failure, Uncertainty & risk of inability to meet all requirements, risk of increased costs & schedule slippage, impact to service levels & Port priority.	$10,700,000
3	**Upgrade with beneficial features** (not recommended)	Pros: Timely replacement, additional redundancy, control, requirements met, interoperability, benefit & cost predictability. Cons: Timing/ cost versus value.	$24,175,000
4	**Upgrade** (recommended)	Pros: Shortest timeline, interoperability beyond Port, control, requirements met, benefit & cost predictability. Cons: Cost, lack of Mobile Tower Site.	$22,100,000

Questions?