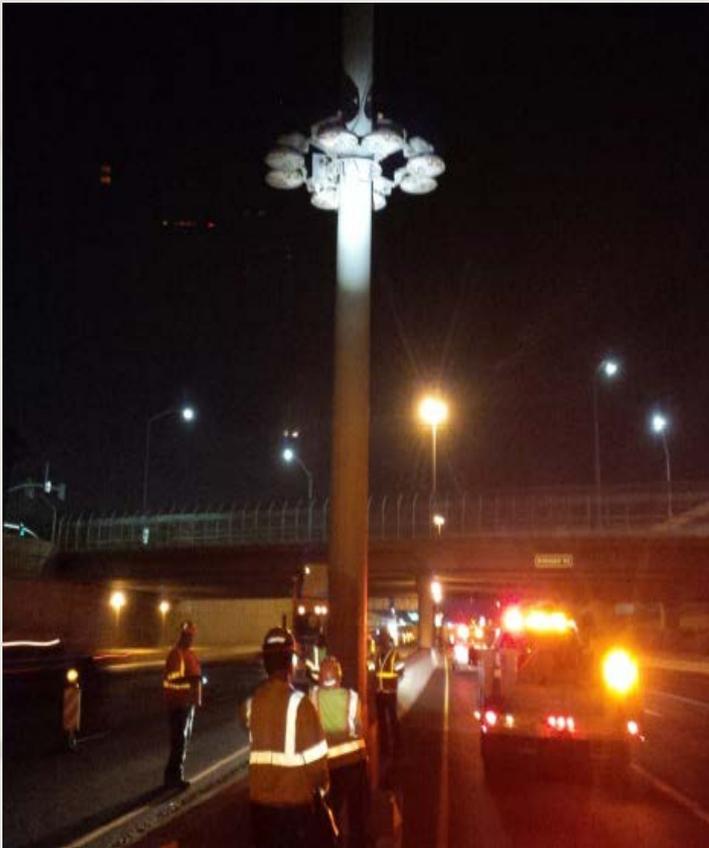


ADOT P3 Metro Phoenix Lighting Project



Chaun Hill

Maricopa Association of Governments

Floyd Roehrich Jr.

Arizona Department of Transportation

Lisa Danka

Arizona Department of Transportation

April 18, 2018

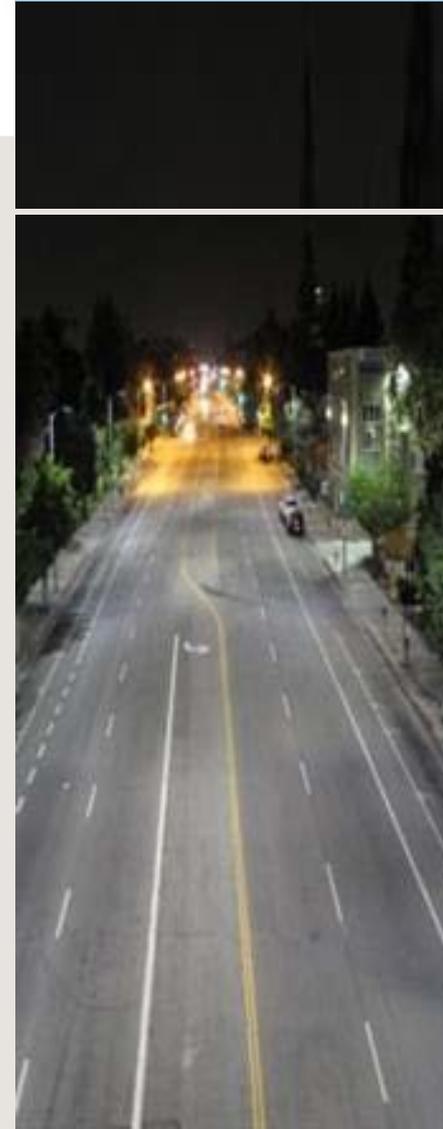
Scope

- **Convert 19,300 luminaires throughout the Region from Halogen to LED**
 - 3,300 in the Deck Park tunnel
 - 16,000 on the highways
- **Includes remote monitoring and controls**
- **Pole replacement to facilitate enhanced design**
- **2-3 years construction, 15 year maintenance period, with defined handback conditions**



Rationale

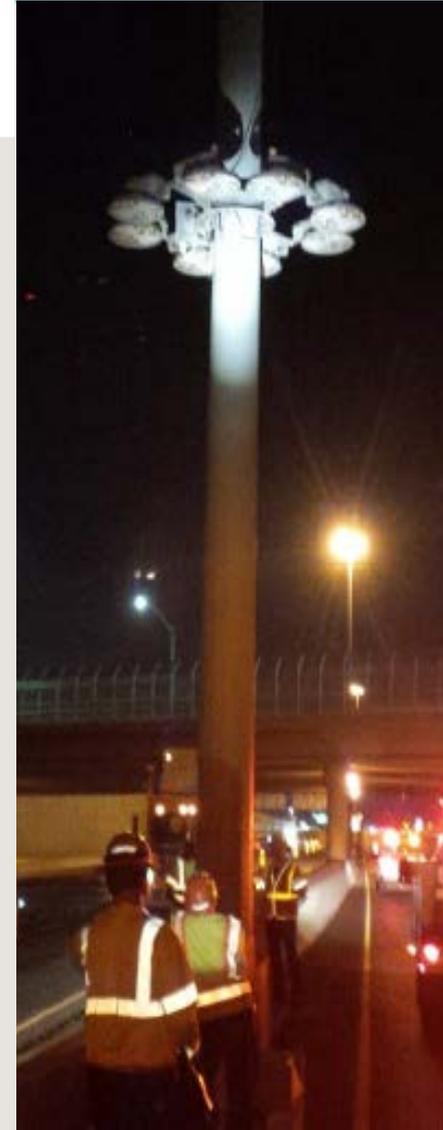
- ***Enhance safety*** by upgrading luminance levels to industry standards
- ***Track system performance*** with the monitor and control package
- ***Guarantee performance*** by committing to life cycle approach
- ***Save energy and money***
 - Estimated cost savings of over *\$1 million per year*



Risk Shifting

ADOT reduces its exposure to:

- Schedule and cost overruns during construction
- Energy consumption risks over the life of the projects
- Performance over the life of the project (*lighting levels, downed poles, monitoring system*)
- Potential claims due to poor lighting, especially in the Deck Park tunnel



Short Listed Proposers

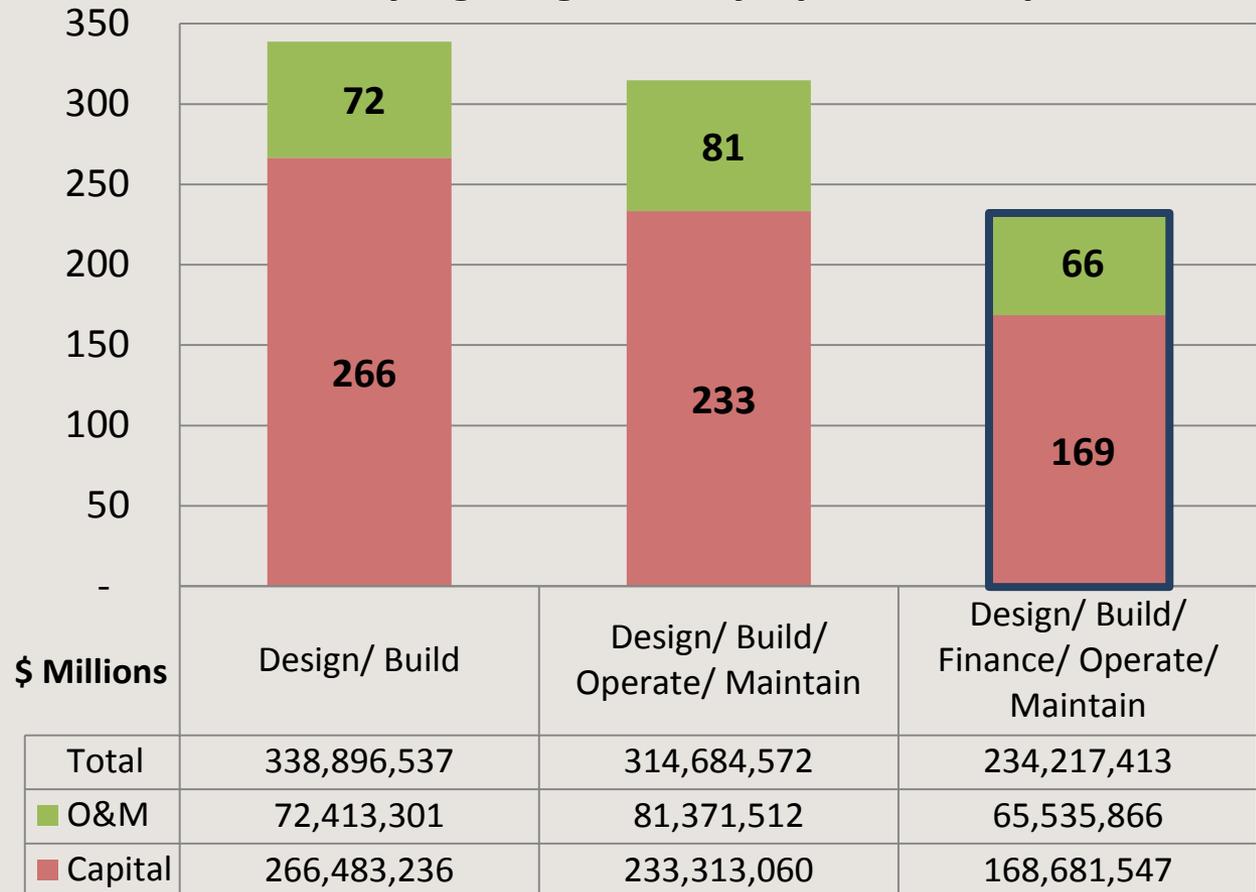
- **Illuminate AZ**
 - Led by ACS Infrastructure Development
- **Arizona Lighting Partners**
 - Led by Star America Partners and Aldridge Electric
- **Phoenix Plenary Partners**
 - Led by the Plenary Group



Cost, Funds and Finance

- **Estimated payments:**
 - ***\$75.2 million*** through the balance of Prop 400 funding
 - ***\$93.4 million*** paid from FY2026–FY2035
- **Total capital cost: *\$168.6 million***

Freeway Lighting Delivery Options Comparison



Project Timeline

Date	Activity
Completed	<ul style="list-style-type: none"> • Final Draft RFP has been sent to short list
May/June 2018	<ul style="list-style-type: none"> • Finalize finance and add to TIP/STIP
Summer 2018	<ul style="list-style-type: none"> • Alternative Technical Concepts and One-on-One meetings
September 2018	<ul style="list-style-type: none"> • Final proposals due
October 2018	<ul style="list-style-type: none"> • Preferred proposer selected
November 2018	<ul style="list-style-type: none"> • Commercial close anticipated
February 2019	<ul style="list-style-type: none"> • Financial close anticipated

Approval Timeline

Date	Entity	Request
April 18	Transportation Policy Committee	For information only
April 26	Transportation Review Committee	Recommendation
May 9	Management Committee	Recommendation
May 16	Transportation Policy Committee	Recommendation
May 23	Regional Council	MAG final decision
June 15	State Transportation Board	STB final approval in the 5-year program

Thank You

- Questions?
- For more information:
 - Chaun Hill
MAG
 - Floyd Roehrich Jr.
ADOT
 - Lisa Danka
ADOT



Other Items of Interest

- Tunnel lighting, currently underlit, will be upgraded to meet standards
- Future MAG projects will be required to include lighting to match existing system
 - lighting will be turned over to developer upon completion for O&M
- Issues of importance to the public:
 - public communications
 - lighting temperature
 - appropriate shielding, etc.

