



KAYUGA
SOLUTION



CAMP Committee Meeting

City of Livermore

June 19, 2017

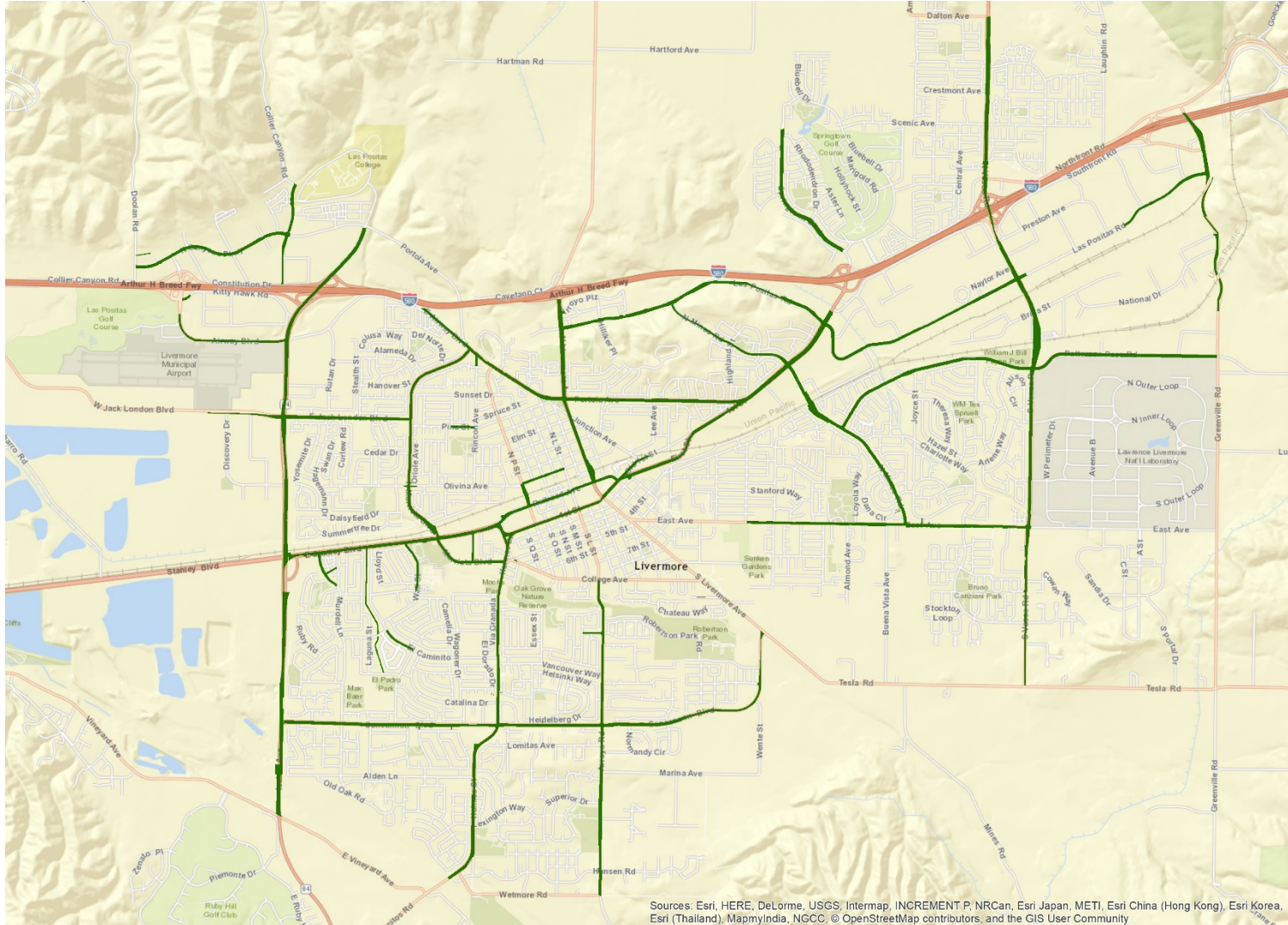
Parks and Plazas

Parks and Plazas Redundancy Update

Park/Plaza Name	Usage	Redundancy - ½ Mile	Redundancy – ¼ Mile
Flagpole Plaza	High	Yes	Yes
Lizzie Fountain Park	High	Yes	Yes
Mills Square/Livermorium Plaza	High	Yes	Yes
Shea Plaza/LVC Plaza	High	Yes	No
Civic Center Park	High	Yes	Yes
Portola Park	High	Yes	No
Carnegie Park	High	Yes	Yes
Dolan Park	High	Yes	No
Freisman Park	High	No	No
East Ave Greens	High	Yes	Yes
Brickyard Park	Medium	Yes	No
Centennial Park	Medium	Yes	Yes
Hansen Rose Garden	Medium	Yes	No
Crater Walkways	Medium	Yes	Yes
Desiree Park	Medium	Yes	Yes
Sister City Park	Low	No	No
Rotary Park	Low	Yes	Yes
Madeira Park	Low	Yes	No

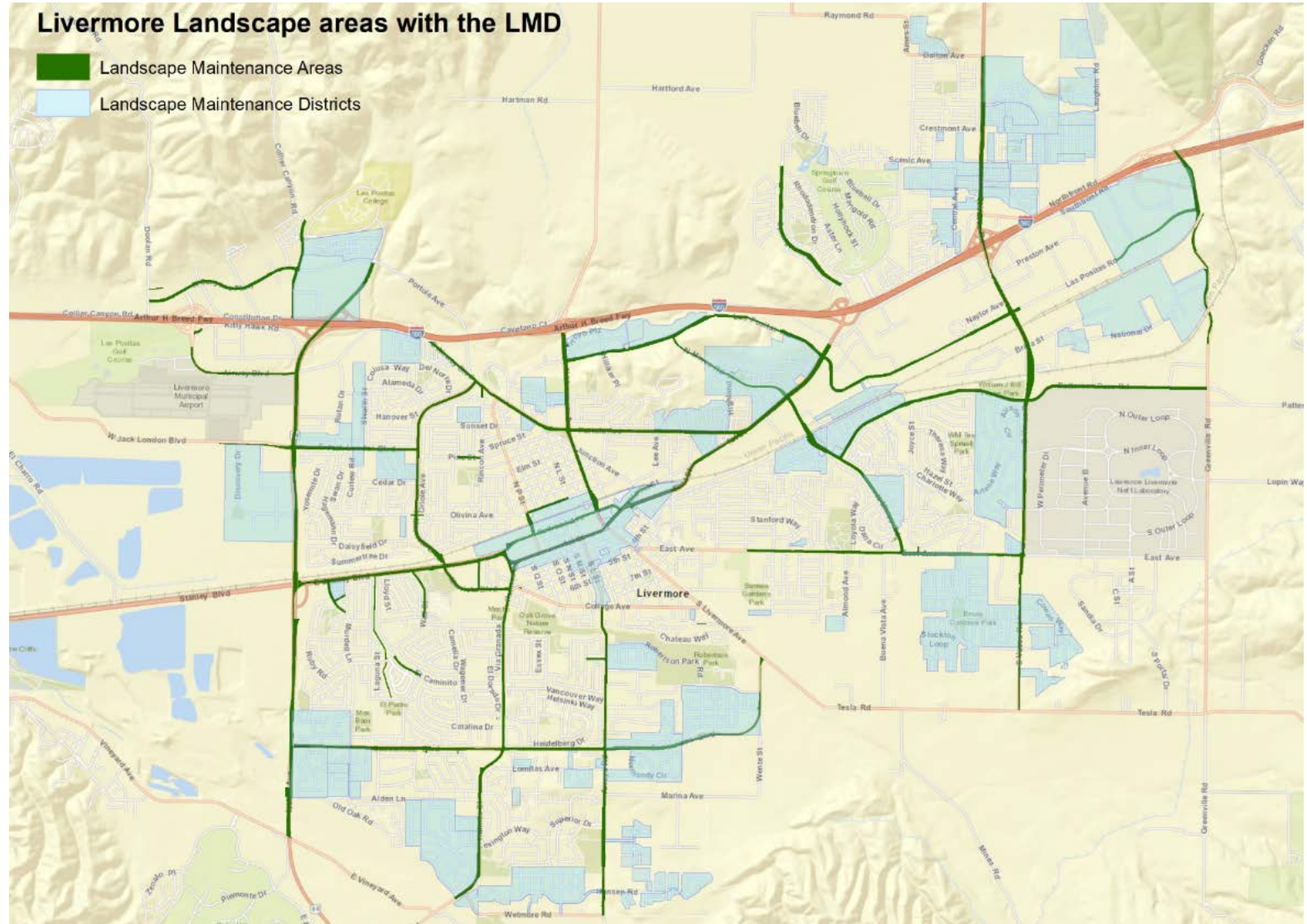
Landscape Areas

Landscape Areas in the City's Right of Way



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

Landscape Areas in LMD



Landscape Assets

- Irrigation controller
- Irrigation control valve
- Backflow preventer
- Hardscape (e.g., concrete, pavers, embedded rocks)
- Turf
- Shrubs/perennials
- Mulch
- Fitness station
- Downtown fixtures
 - Benches, Bike racks, Bollards, Trash bins, Trellis, Planters, Tree guards

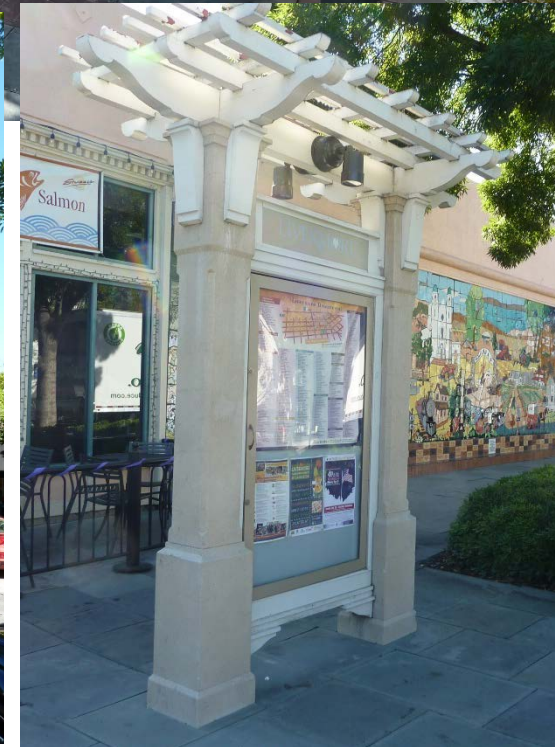
Inventory



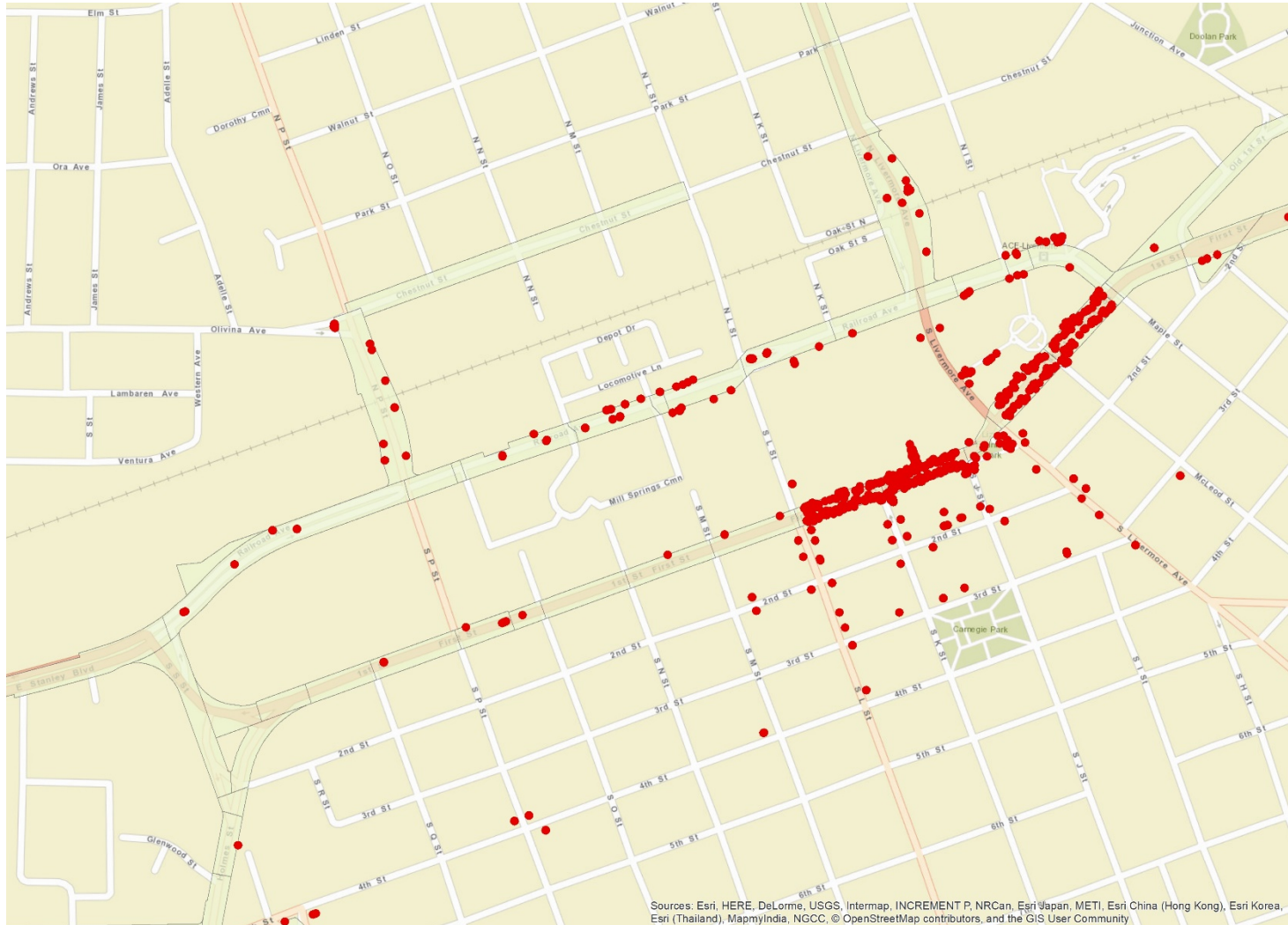
Inventory



Inventory – Downtown Fixtures



Downtown Fixture Assets



Condition Assessment

- Missing shrubs



- Missing mulch / decorative rocks



Risk

- Probability of Failure (PoF)
 - By condition
- Consequence of Failure (CoF)
 - By location (visibility/usage)
 - Downtown > Arterial > Collector > Residential
 - By asset

Consequence of Failure (CoF) Ratings

- CoF
 - 1 = low, 5 = high

Asset	CoF
Irrigation controller	4
Irrigation control valve	4
Backflow preventer	5
Hardscape (e.g., concrete, pavers, embedded rocks)	3
Turf	3
Shrubs/perennials	3
Mulch	2
Fitness station	1
Downtown fixtures (Benches, Bike racks, Bollards, Trash bins, Trellis, Planters, Tree guards)	5

Management Strategies

Asset Class	Useful Life	Rehab Activity	Rehab Frequency	Rehab Cost
Backflow Preventer	20	Rebuild	6	15%
Bench - Concrete	30			
Bench - Wood	5	Repair/Rehab	5	15%
Bollard with Light - Coated Steel	20	Minor Repairs/Change Bulb	2	5%
Mulch	5			
Decorative Rocks	100	Replenish	10	10%
Fencing - Wood	10			
Fitness Course Structure	8			
Hardscape	50	Repair/Rehab	5	5%
Irrigation Controller	15	Component Replacement	5	15%
Landscape Lighting	15	Repair/Change Bulb	2	5%
Planter	8			
Shrubs	20			
Trash Bin	50			
Tree Guard and Grate	30			
Trellis	40	Replace wood	10	10%
Turf	100	Maintenance	2	8%

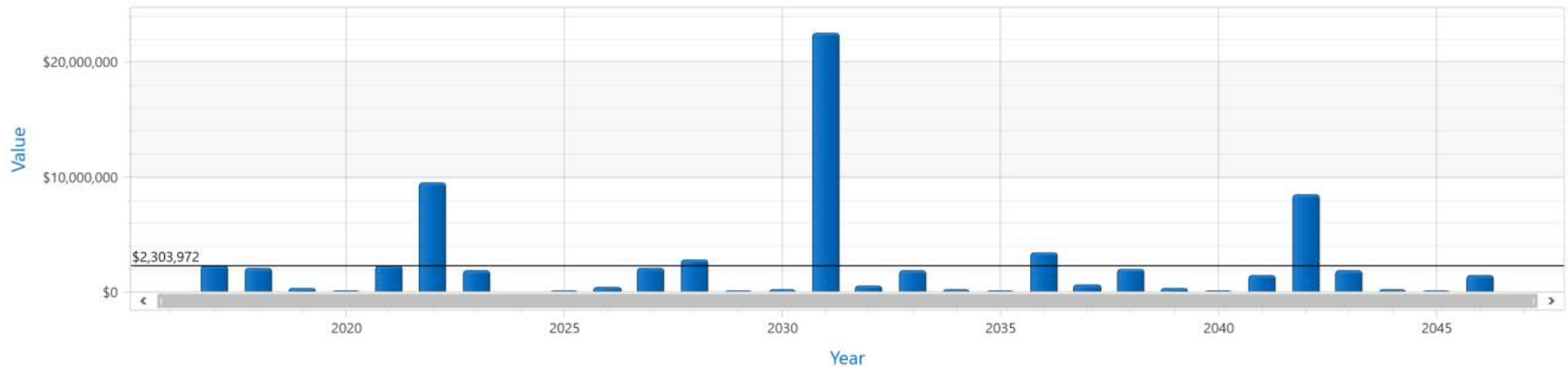
Replacement Cost

- Total replacement cost: \$37.2 million (General Fund Landscape Assets)
- Catch Up: \$1.9 million

Condition	Replacement Cost
Condition 4	\$1.3 million
Condition 5	\$632,000

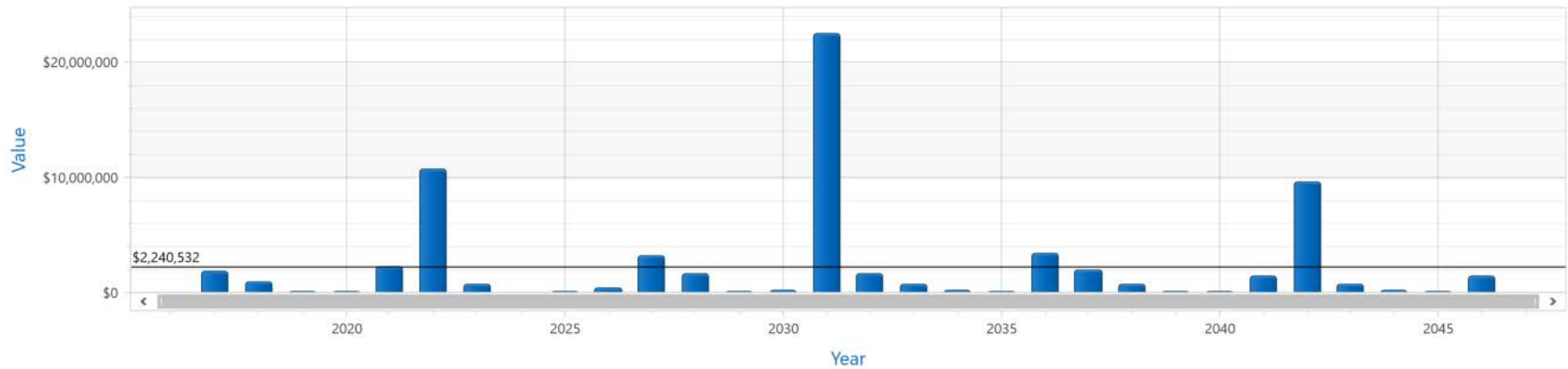
Initial Output – 30 Years

- Catch Up + Keep Up: \$2.3 million



Initial Output – 30 Years

- Keep Up: \$2.2 million



Thank you!

