

# 2021 - 2022 Capital Improvement Construction Project Update

Board of Public Utilities

January 20, 2022

Andrew Allen, Supervising Engineer

Adam Rausch, Associate Civil Engineer

Casey Claborn, Associate Civil Engineer



OUR FUTURE IN EVERY DRÖP

# Discussion Items

---

- Construction Projects Anticipated in 2021
  - Projects Completed or in Construction
- Construction Projects Anticipated in 2022
- Current and Future CIP Funding
- Engineering Bandwidth Gaps

# Projects Anticipated in 2021

---

34 projects were anticipated to be awarded in 2021

<b>Awarded / Looking to award:</b>			
	<b>by end of 2020</b>	<b>in 2021</b>	<b>in 2022</b>
<b>Projects</b>	17	5	12

# Projects Anticipated in 2021

Total estimated construction costs: \$116 M\*

Awarded / Looking to award:			
	by end of 2020	in 2021	in 2022
<b>Local</b>	\$31.3 M 11 projects	\$3.1 M 2 projects	\$24.9 M 9 projects
<b>Subregional</b>	\$4.5 M 6 projects	\$1.3 M 3 projects	\$50.9 M* 3 projects
<b>Totals</b>	<b>\$35.8 M</b> 17 projects	<b>\$4.4 M</b> 5 projects	<b>\$75.8 M*</b> 12 projects

\* Construction costs include \$49.8M for the bond-funded UV disinfection project.

# Projects Completed in 2021

Llano Trunk (W 3rd St.)  
and Glenbrook Siphon  
Lining



R7 Road Access  
Stabilization



# Projects Completed in 2021

Northerly Slope  
Protection Delta  
Pond



Geysers Pipeline  
Expansion Joints  
Replacement

# Projects In Construction

A Place to Play  
Emergency Well



Skyfarm A and Hansford  
Court Lift Station  
Reconstruction



# Projects In Construction

North Trunk Sewer Main and  
Chanate Ave. Water Main



LTP Engine Radiators  
Replacement



# Upcoming Construction 2022

## Cobblestone Drive Water Main

- Fire Flow Improvements
- Zone R2-R4 Connection



Backup Generators at  
18 Water and Wastewater  
Facilities  
(Federally funded)

# Upcoming Construction 2022

---

## West College Storage Facility Pumping Improvements





# Upcoming Construction 2022

Laguna Treatment Plant UV  
Disinfection Improvements  
(Bond-funded)





# Questions?

---

- Construction Projects Anticipated in 2021
  - Projects Completed or in Construction
- Construction Projects Anticipated in 2022
  
- Current and Future CIP Funding
- Engineering Bandwidth Gaps

# FY 2022-23 CIP Projections

---

<b>Enterprise Fund</b>	<b>Allocations</b>	<b>CIP Need</b>
<b>Local Sewer</b>	\$13M	\$41M
<b>Local Water</b>	\$14M	\$33M
<b>Regional</b>	\$9M	\$25M
<b><i>TOTAL</i></b>	<b><i>\$36M</i></b>	<b><i>\$99M</i></b>

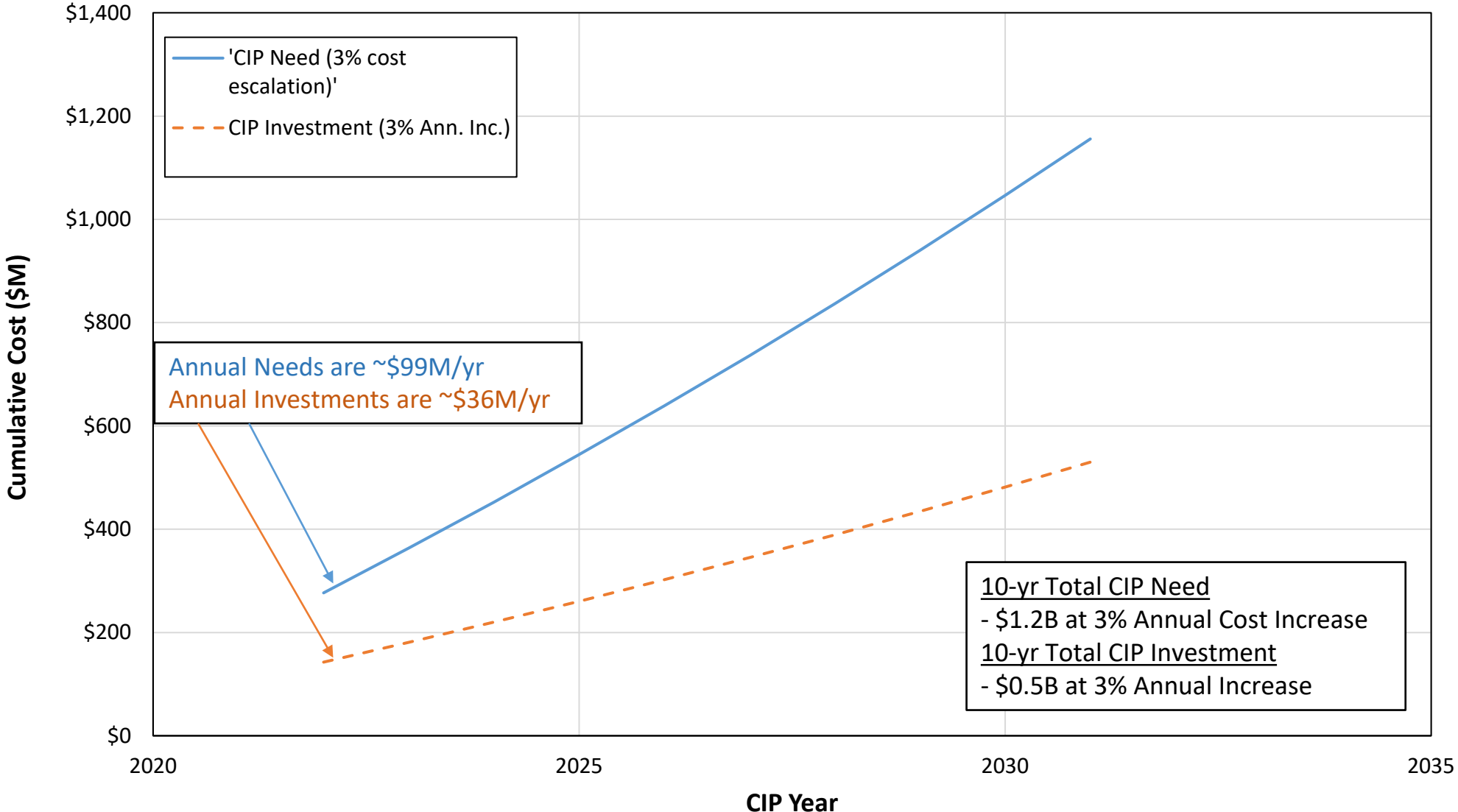
# FY 2022-23 CIP Projections

<b>Enterprise Fund</b>	<b>Allocations</b>	<b>CIP Need</b>	<b>Shortfall</b>
<b>Local Sewer</b>	\$13M	\$41M	<b>\$28M</b>
<b>Local Water</b>	\$14M	\$33M	<b>\$19M</b>
<b>Regional</b>	\$9M	\$25M	<b>\$16M</b>
<b><i>TOTAL</i></b>	<b><i>\$36M</i></b>	<b><i>\$99M</i></b>	<b><i>\$63M</i></b>



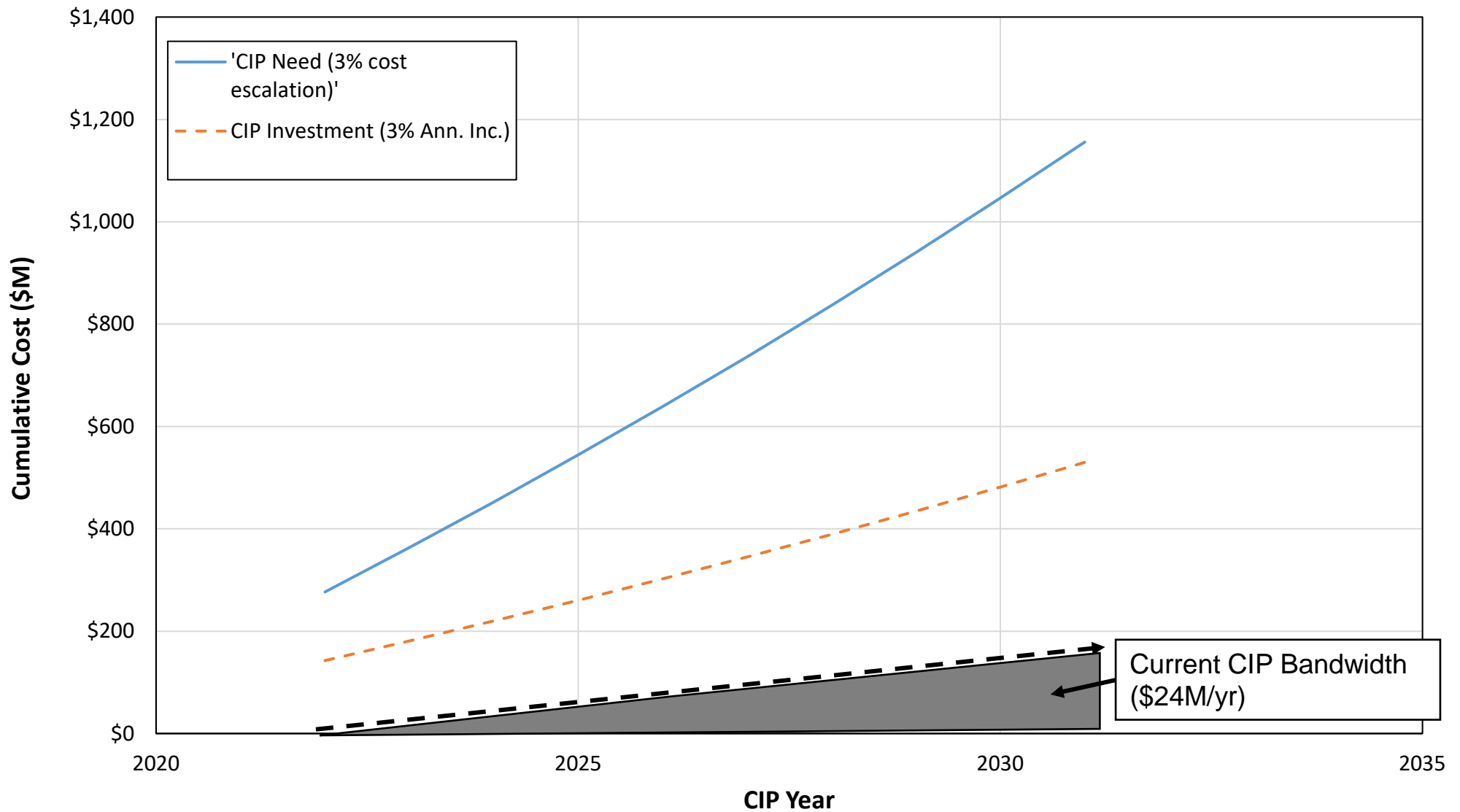
# Current and Future Needs:

### Projected CIP Investment vs. Need - Sewer, Water, and Regional Systems



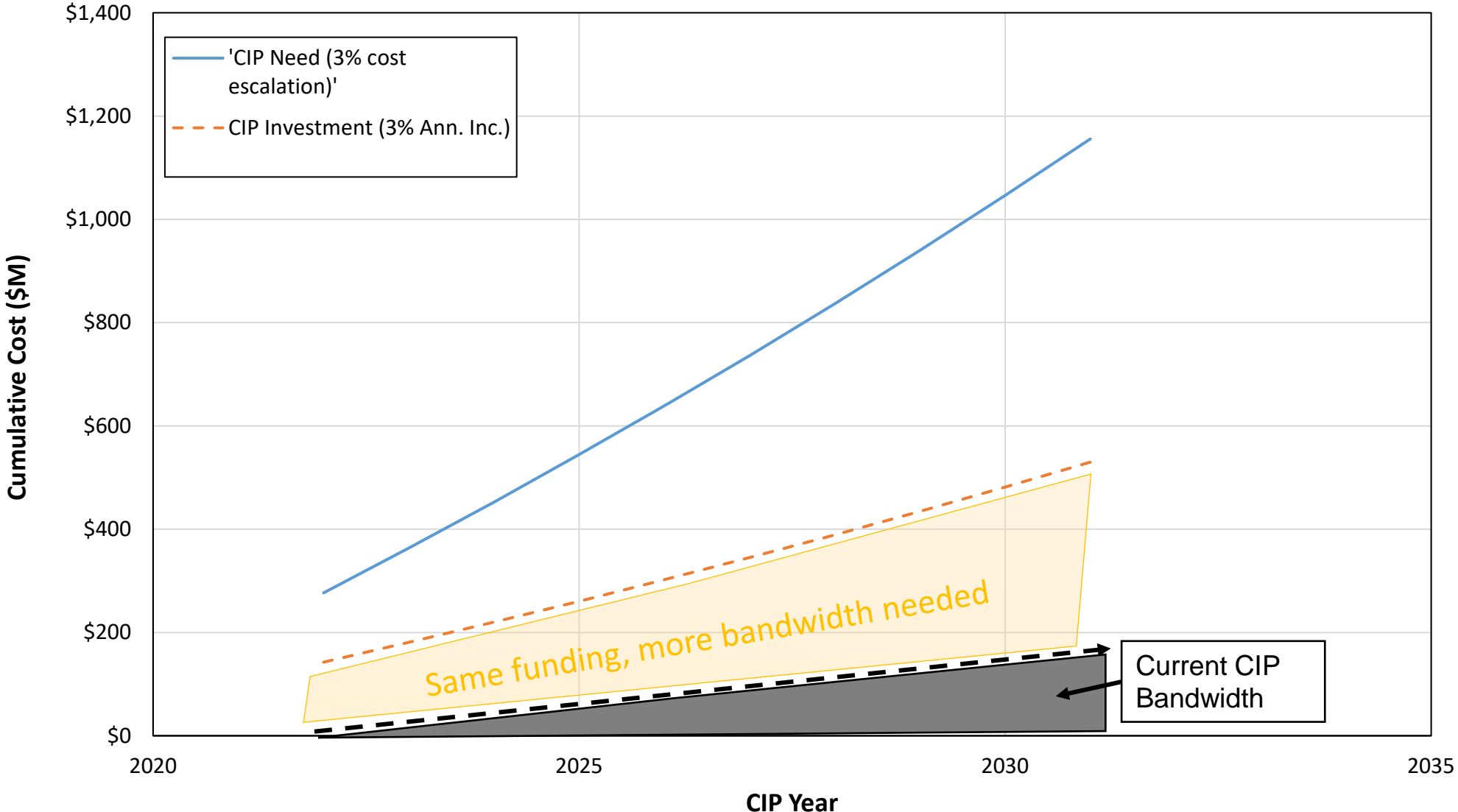
# Current and Future Needs:

Projected CIP Investment vs. Need - Sewer, Water, and Regional Systems



# Current and Future Needs:

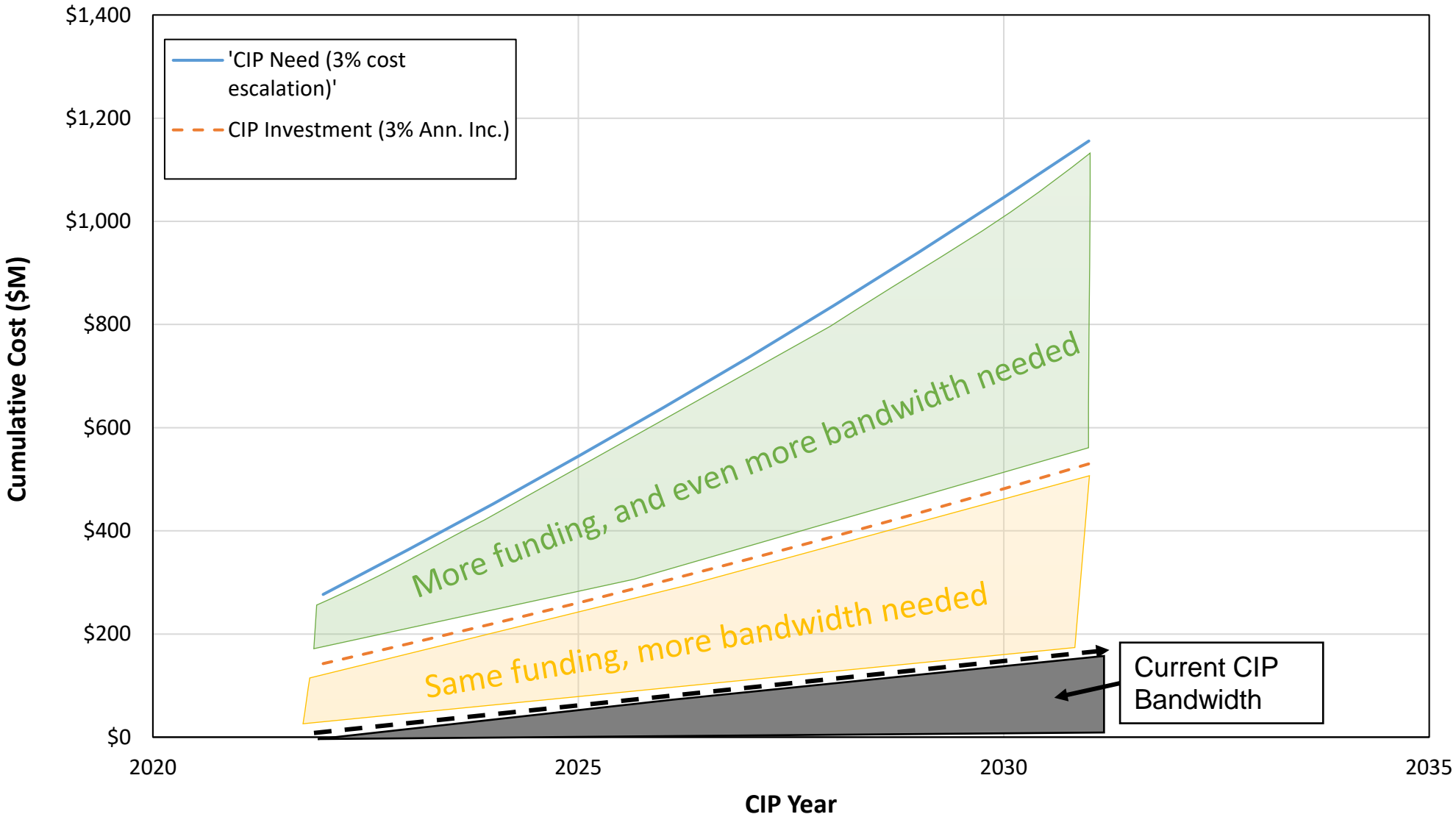
Projected CIP Investment vs. Need - Sewer, Water, and Regional Systems





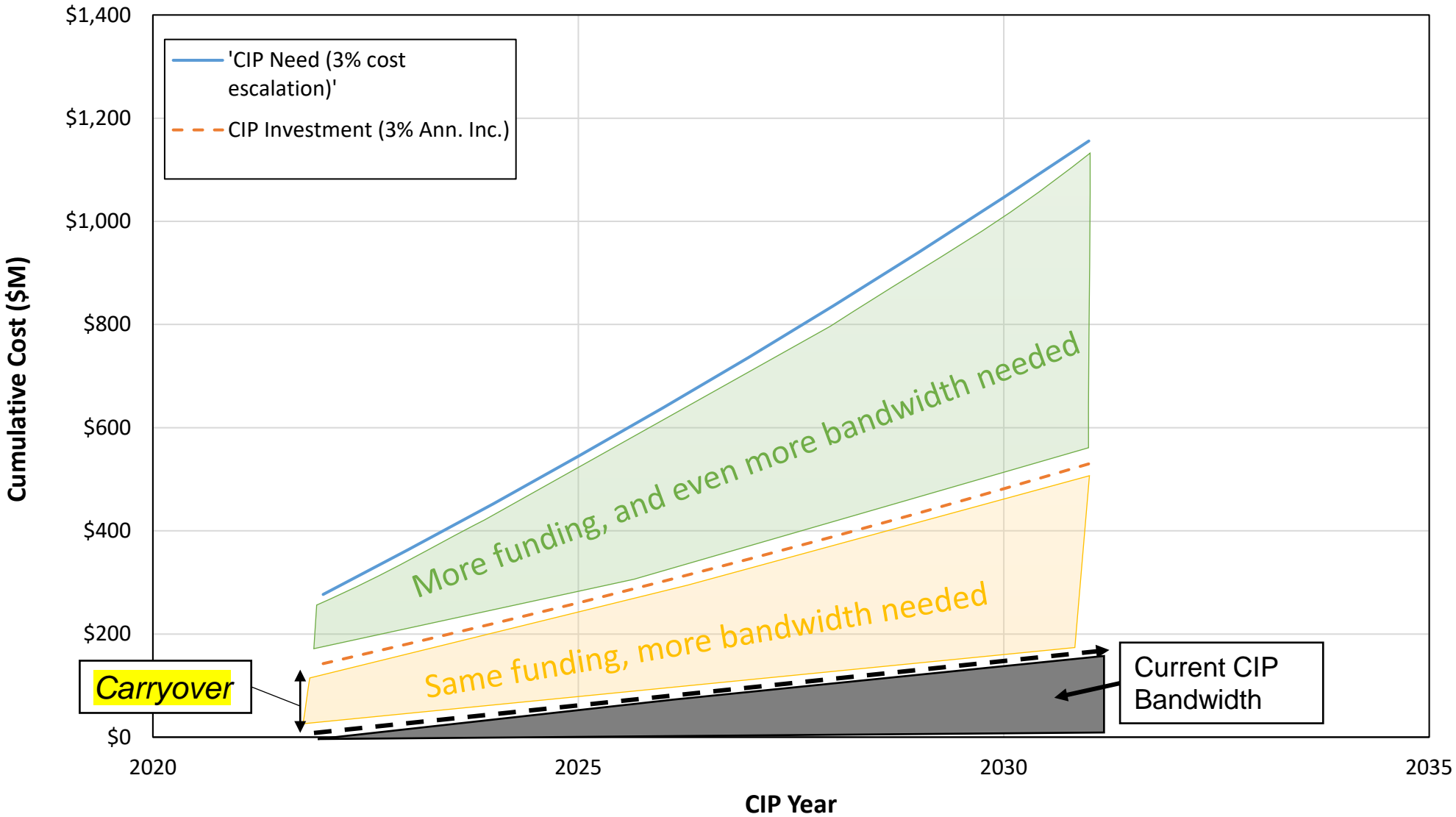
# Current and Future Needs:

Projected CIP Investment vs. Need - Sewer, Water, and Regional Systems



# Current and Future Needs:

Projected CIP Investment vs. Need - Sewer, Water, and Regional Systems

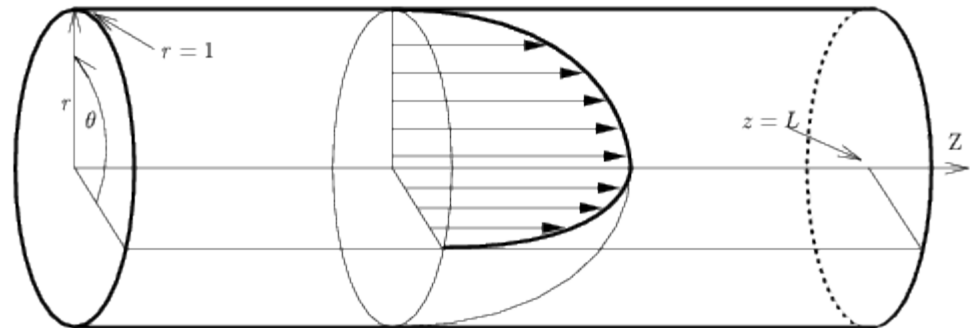


# CIP Delivery Gap

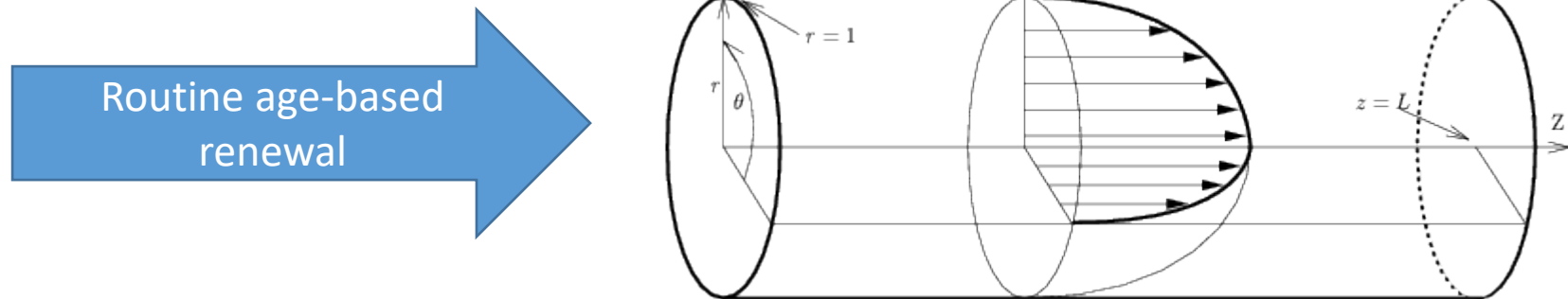
- Delivery has been falling behind relative to past years' CIP Plans
- Our CIP Plan appropriations (and proposed rate increases) are not sufficient to sustain our infrastructure long-term
- Grant funding pursuits, disaster recovery, and other “extra” projects are needed, but **cut into our baseline delivery capacity**

# Capital Project “Pipeline”

- Concept
- Scoping
- Pre-Design
- Design
- Construction
- Warranty

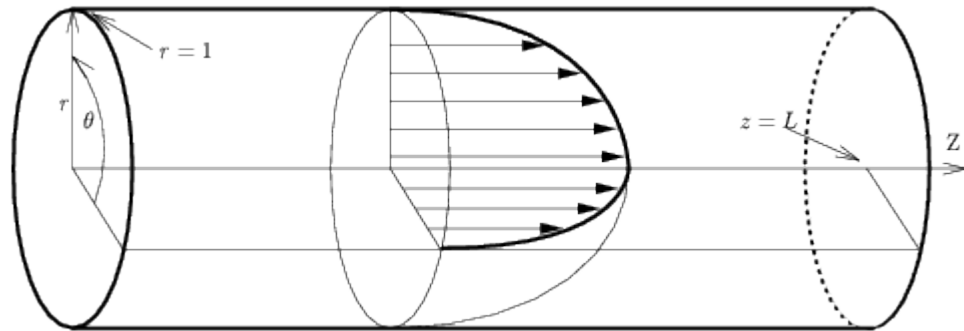
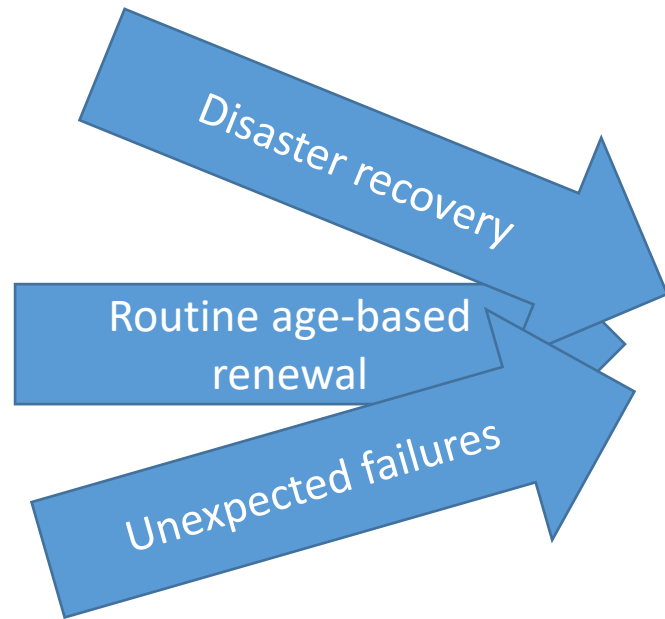


# CIP Bandwidth

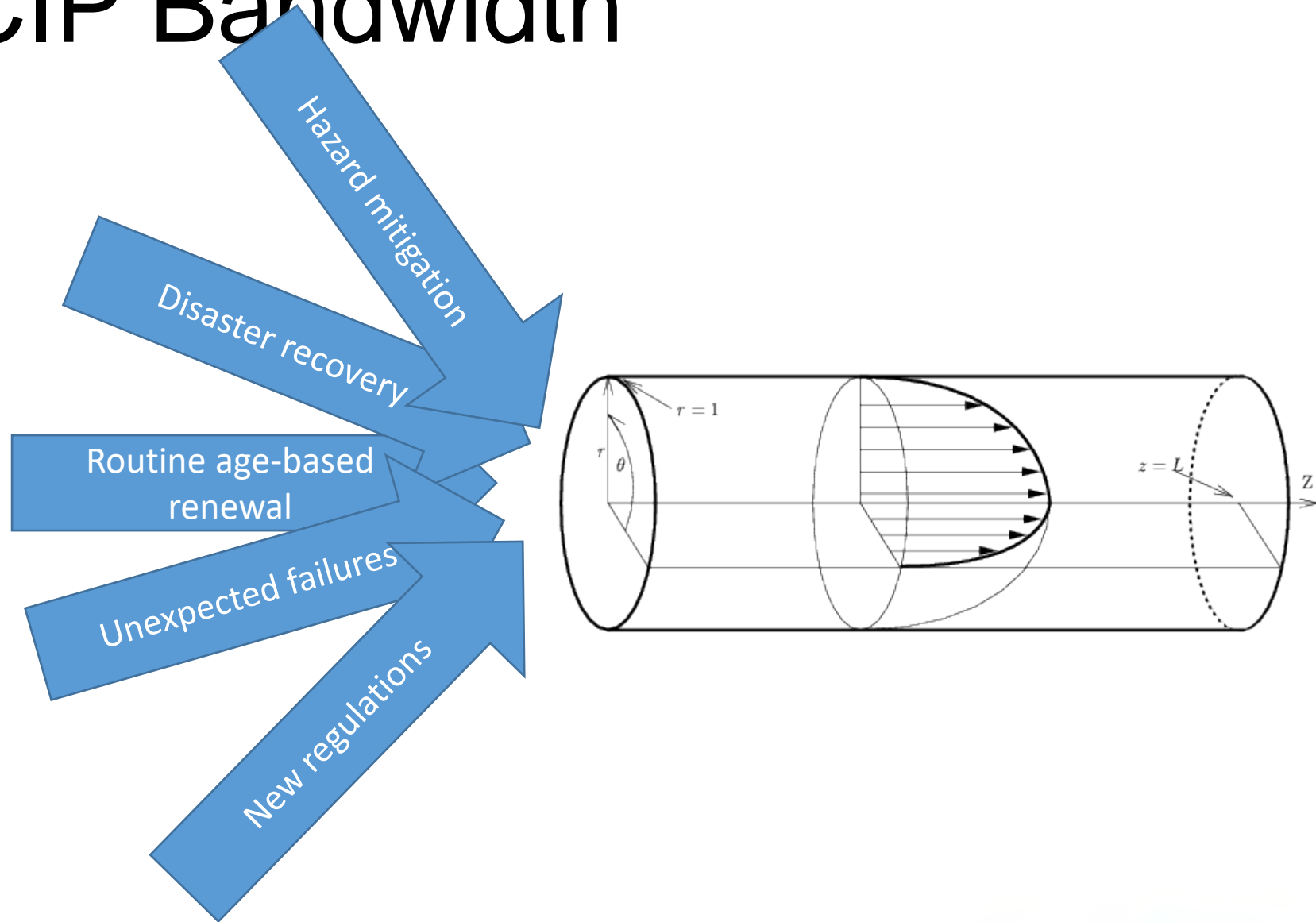




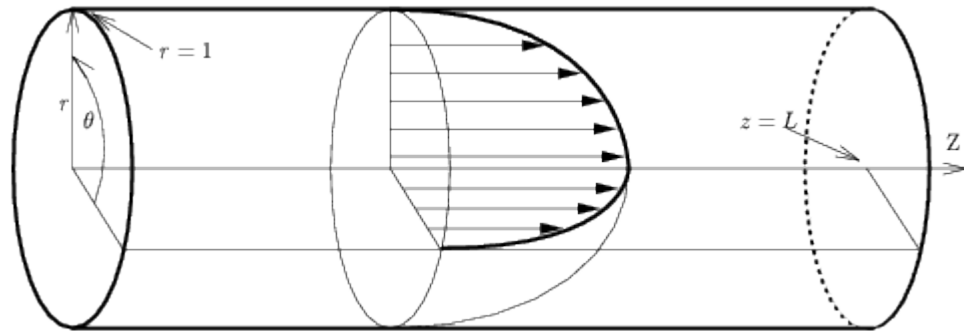
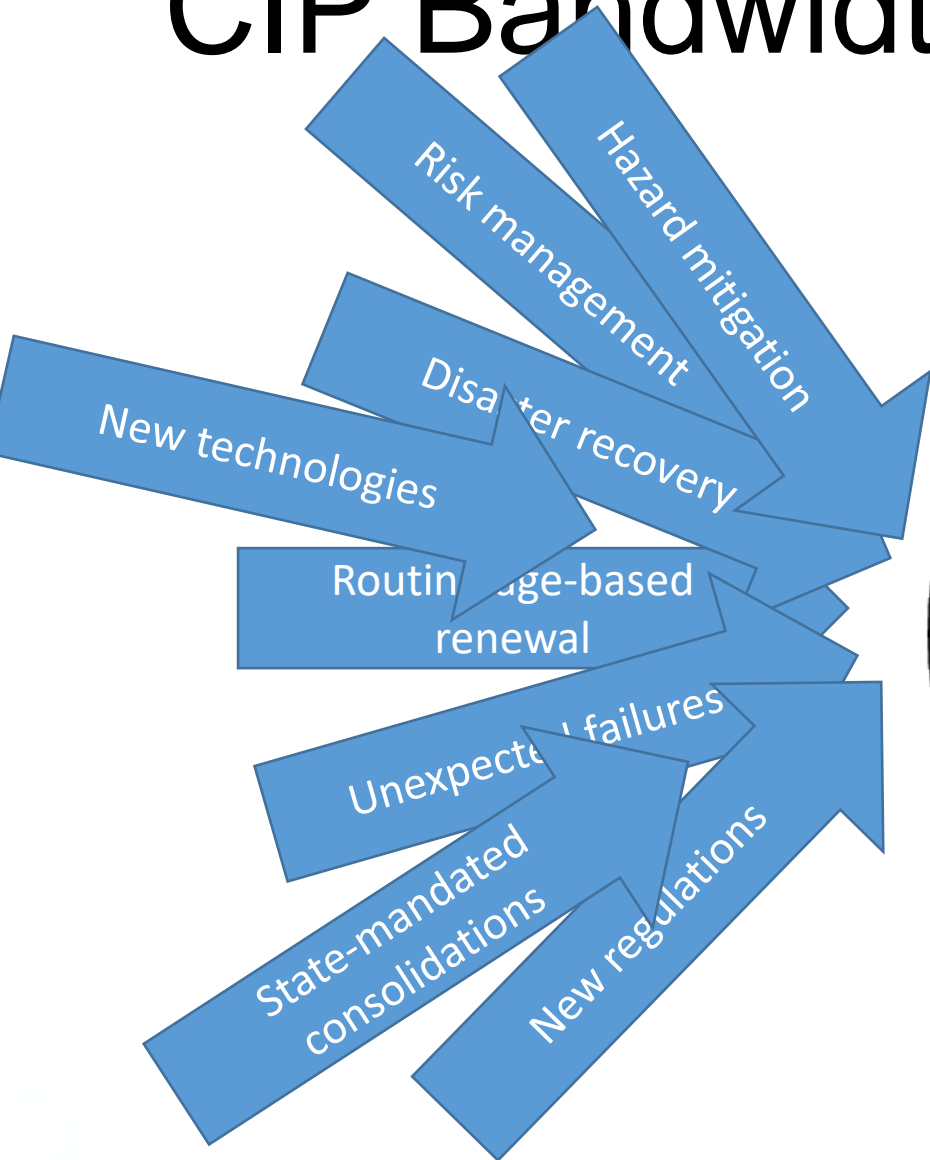
# CIP Bandwidth



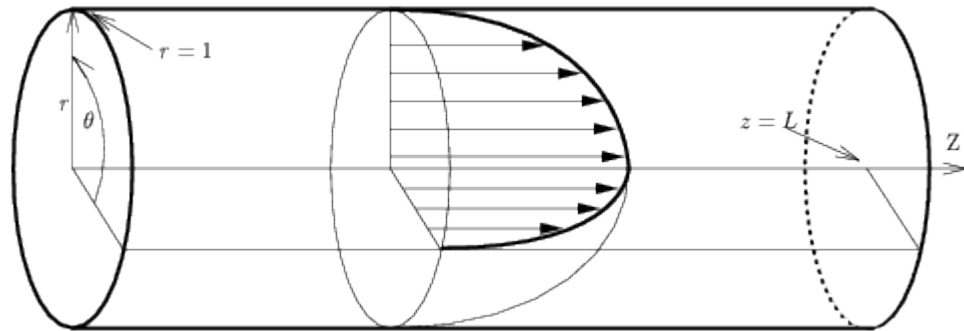
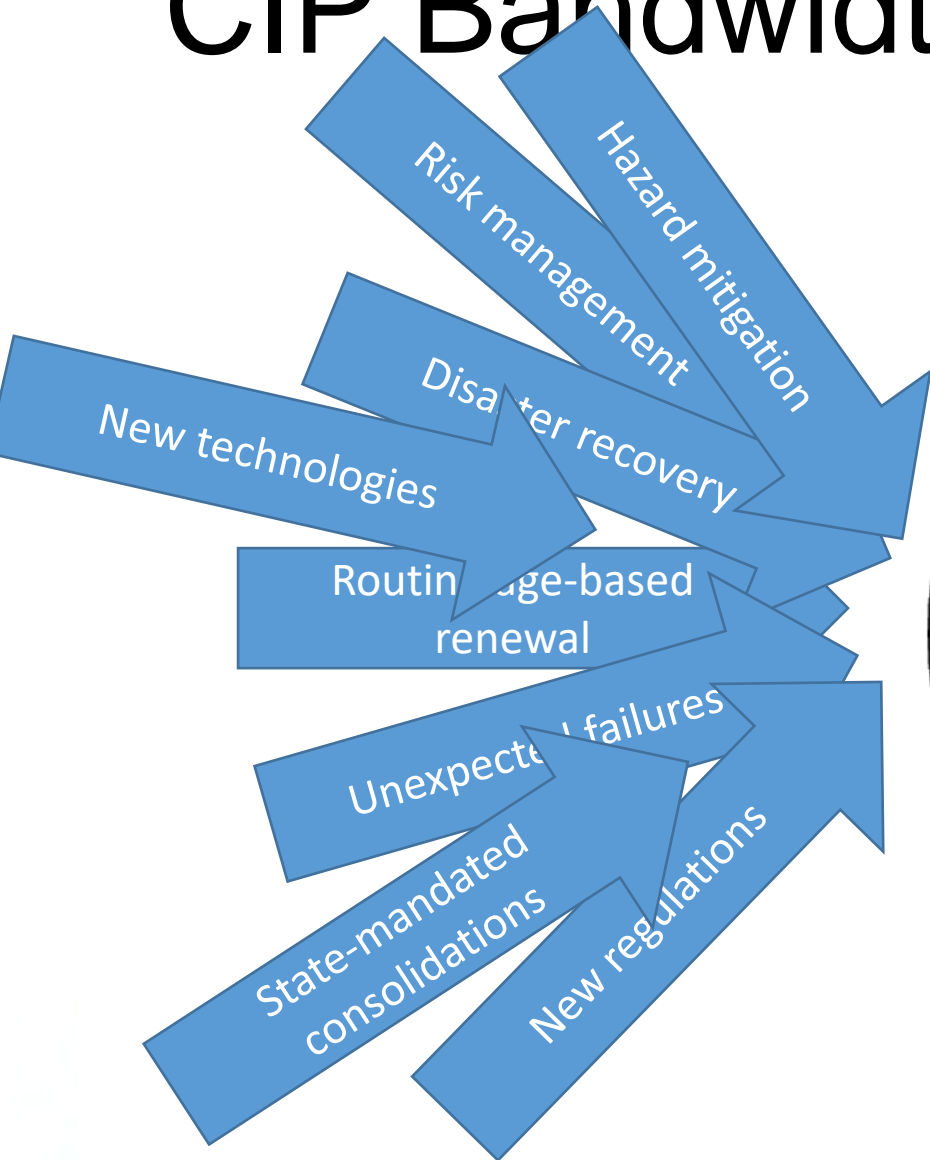
# CIP Bandwidth



# CIP Bandwidth



# CIP Bandwidth



*We need a bigger pipeline...*

# Increasing Delivery Bandwidth

---

## Short-Term

- Develop design-build capabilities
- Consultant delivery team
- Staffing efforts:
  - New Deputy Director CIP Mike Prinz
  - Engineering vacancies recruitment

## Long-Term

- Identify any bottlenecks in CIP delivery pipeline
- Evaluate various alternative strategies to improve CIP bandwidth



# Questions?

---