# BUILDING A WORLD OF DIFFERENCE

**CITY OF ANN ARBOR** 

WATER & WASTEWATER SYSTEM CAPITAL COST RECOVERY STUDY



### AGENDA

- Welcome & Project Background
- Project Team
- Project Concepts & Approach
- Next Steps
- Q&A

# PROJECT TEAM

#### **INTRODUCTION & PROJECT TEAM**



Troy Baughman *Project Manager* 

#### **City of Ann Arbor**





#### **MANAGEMENT TEAM**

Brian Jewett
William Zieburtz
Teresa Weed Newman –
Outreach Task Manager
(Project Innovations)

#### **TECHNICAL SPECIALISTS**

James Broz - WW
Robert Harbron – WW
David Koch - W
Mike Borchers - SME
Lori Byron (Famous in Your Field)
- SME

#### **BLACK & VEATCH / PROJECT INNOVATIONS**

- Our industry experience and expertise
  - Thought leadership on capital fee programs throughout U.S.
    - Bill Zieburtz former Chair of AWWA Rates and Charges Committee
    - Brian Jewett leading update of impact fee chapter of AWWA
       M1 Manual (national guidebook for utility rates/fees)
  - Effective public engagement strategies
- Our local knowledge and experience working with Ann Arbor
- Our approach
  - Collaborative and focused on meeting project objectives
  - Comprehensive scenario planning

# PROJECT CONCEPTS & APPROACH

# ANN ARBOR CAPITAL COST RECOVERY CONSIDERATIONS

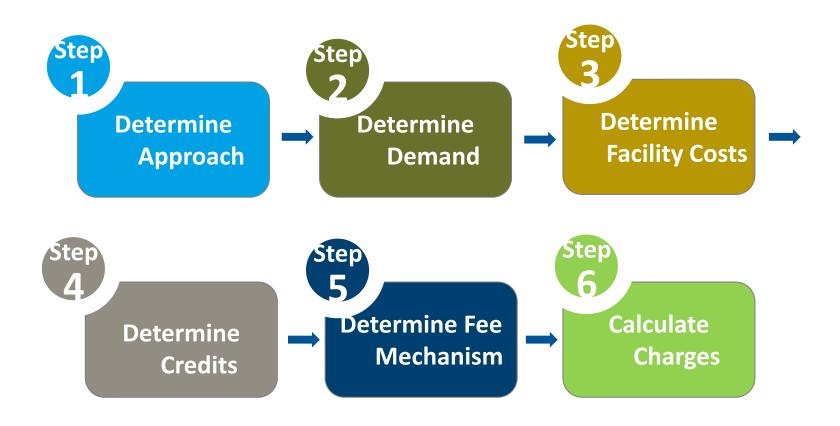


## WHY UTILITY CONNECTION & IMPROVEMENT CHARGES

- Maintain existing levels of service
- New growth pays its equitable share
  - Anti-growth pressure may be eased
- Encourage disciplined capital improvement planning
  - Earmark money for capital improvements
- Promote comprehensive planning and growth management
  - Help ensure adequate public facilities
- Guarantees level playing field

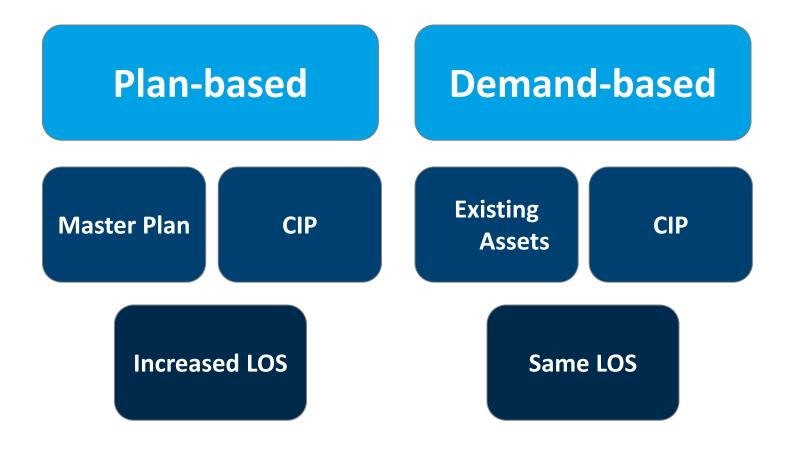
#### **DEVELOPING ANN ARBOR'S CAPITAL CHARGES**

# General Framework - Calculation of Capital Recovery Fees is determined as follows:



#### **DETERMINE APPROACH**

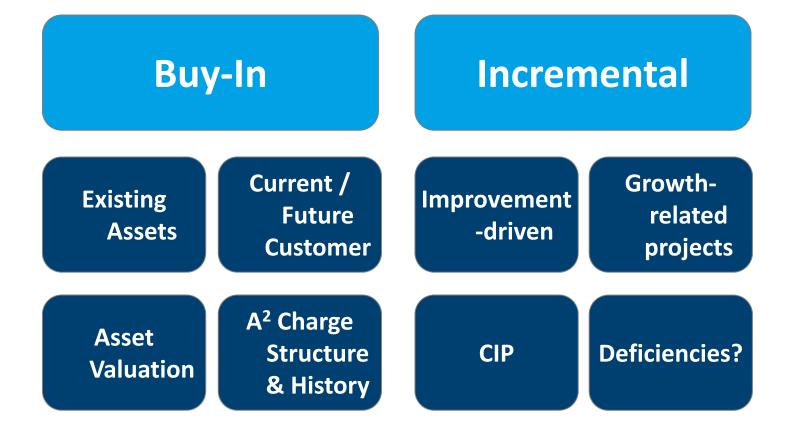




Which approach is best for Ann Arbor?

#### **DETERMINE APPROACH**





Which approach is best for Ann Arbor?

#### **DETERMINE DEMAND**



# Documents

Master Plans

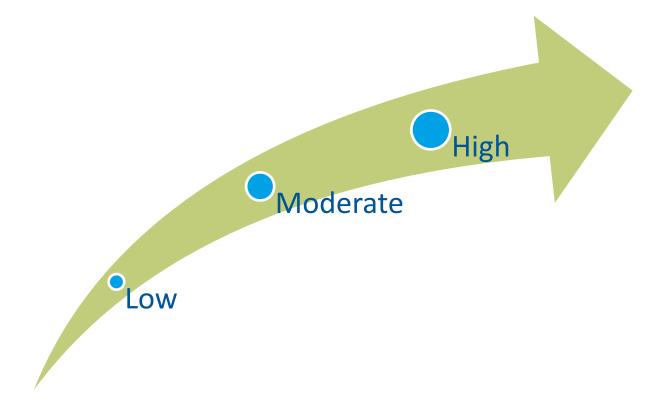
City Planning

**SEMCOG** 

Census Data

#### **USE SEVERAL GROWTH SCENARIOS**





#### **Considerations:**

- Growth projection & fees Inverse relationship
- Whose growth assumptions?





Meter Size	Buy-In Component per Meter	Meter Size	Buy-In Component per Meter
3/4"	\$725	3/4"	\$2,297
1"	\$1,208	1"	\$3,829
1.5"	\$2,415	1.5"	\$7,658
2"	\$3,864	2"	\$12,253
3"	\$7,245	3"	\$22,974
4"	\$12,075	4"	\$38,290
6"	\$24,151	6"	\$76,581
8"	\$38,641	8"	\$122,529
10"	\$55,547	10"	\$176,135
12"	\$103,849	12"	\$329,297

#### **Select Cell for Asset Valuation Approaches:**

<u>Legend: 1 = OC, 2 = OCLD, 3 = RC, 4 = RCLD</u>

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## IDENTIFYING FACILITY COSTS: GROWTH-RELATED CIP



Project Description		Total penditure	Growth %	Growth Total
Transmission & Distribution Transmission				
Mains	\$	1,790,000	5%	\$ 89,500
Tanks		4,407,020	85%	3,745,967
Pump Station		2,918,250	5%	145,913
Subtotal	\$	9,115,270		\$3,981,380

#### **EVALUATE CREDITS**



- Past special assessments
- Past contributions
- Dedicated revenues, e.g. grants
- Current outstanding debt & potential future debt
  - Present Value approach on debt service payments – use nominal interest rate on debt
  - Real Interest Cost approach nominal interest rate less inflation rate

#### **DETERMINE FEE MECHANISM**



- Tap size vs. Meter size
  - May result in lower charge for residential connections
- Equivalency unit (REU)
- Progressive
  - Persons per household
  - Square footage for non-residential
- Plumbing Fixture Units (as established by building code)
- Usually in current dollars

#### **CALCULATE FEES**



- Benchmarking
- Cash flow analysis
- Phase-in charges / Payment installment plans
- Accounting of charges
- Annual reporting
- Indexing

# **NEXT STEPS**

#### **PROJECT TIMELINE**

#### September

- Data review and analysis
- Initial Stakeholder meetings

#### October - November

Capital charge methodology development

#### **December - January**

- Stakeholder meetings to discuss findings/recommendations
- City Council workshop

#### **February - April**

- Finalize recommendation & report
- Seek City Council approval

# Q&A