



# District IT Strategy

Madison Metropolitan  
Sewerage District



Presented by Batina Culver



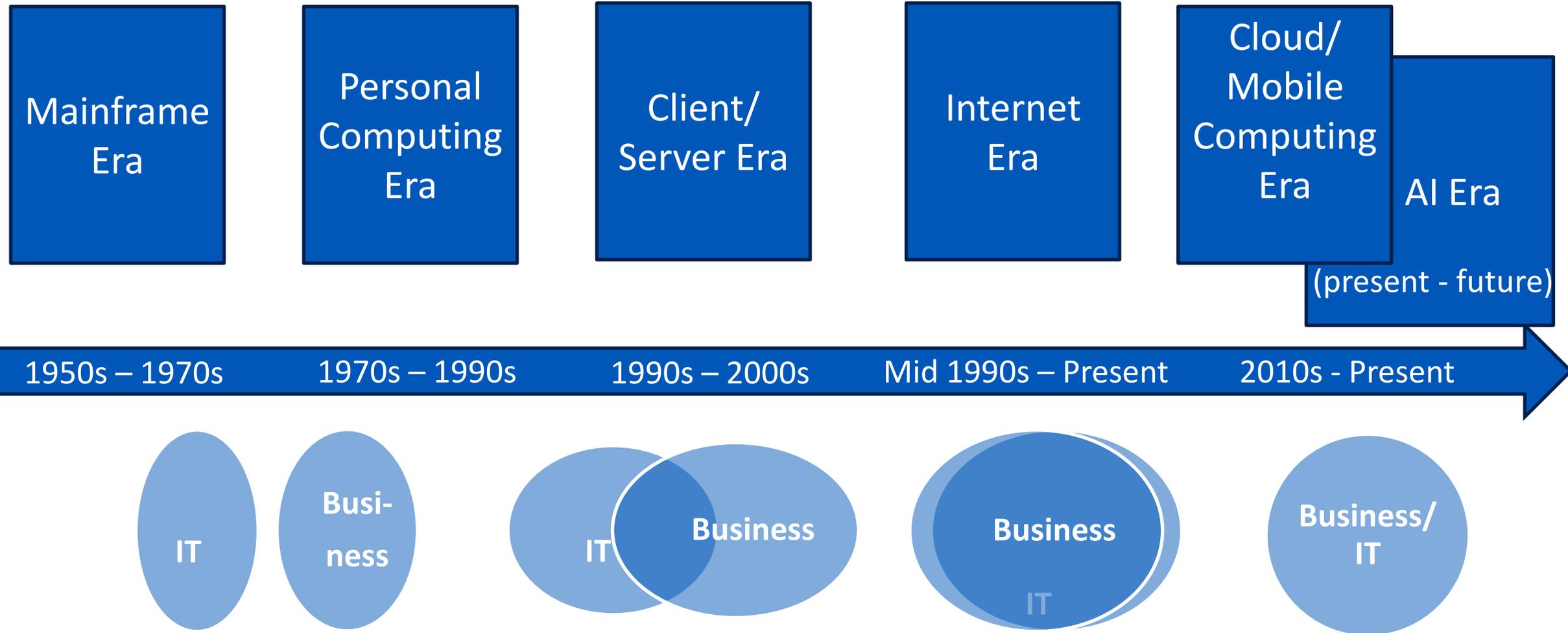


# Today's presentation

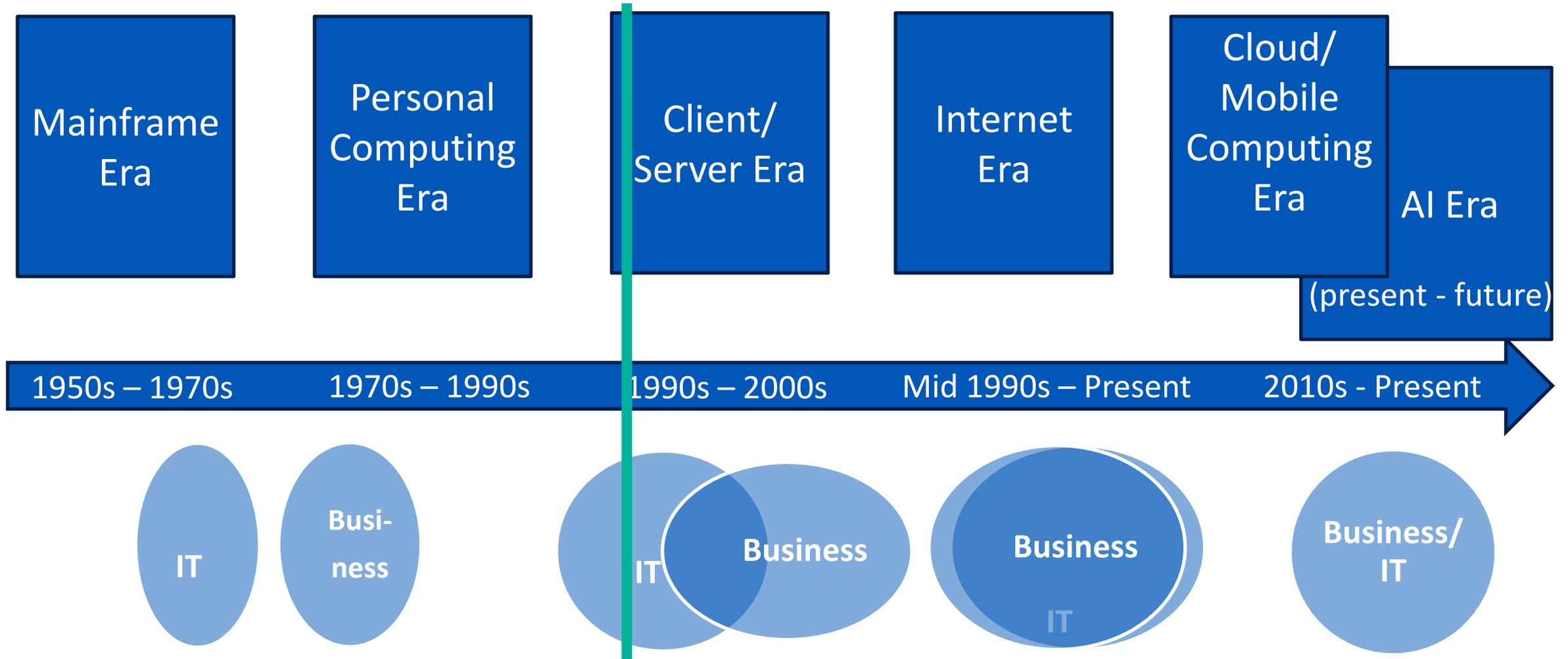
- History of IT
- District IT Strategy
  - People
  - Technology
  - Process
- Questions



# History of IT

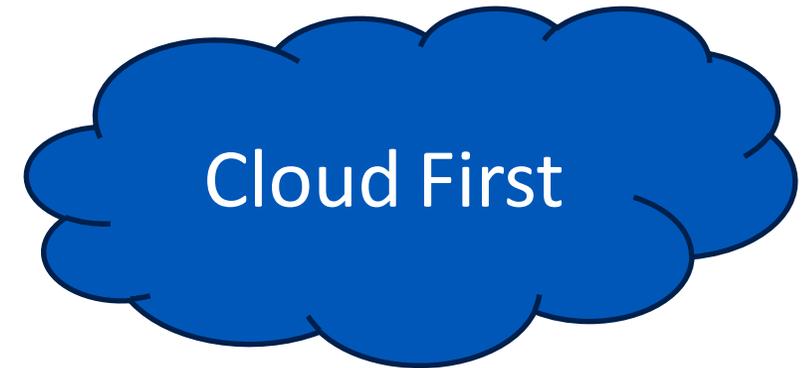


# District adoption of technology



# What is IT strategic direction – modernizing

- Software as a Service (SaaS) solutions (e.g., Workday)
- Modernized solutions hosted from the cloud
- Address legacy technology on priority basis
- Integrate to old technology via modern integration patterns  
(i.e., building web services)



# Journey to cloud – Current and near investments

<b>People</b> <i>Capacity and Skill</i>	<b>Technology</b> <i>Modernize, Secure, Inform</i>	<b>Process</b> <i>IT as Strategic Partner</i>
<b>IT Staff Augmentation – L1/L2 Support</b>	<b>IT System Modernization:</b> <ul style="list-style-type: none"> <li>• <b>DMZ</b> (separate network segment for protection)</li> <li>• <b>Metrogro</b></li> <li>• <b>ERP</b></li> </ul>	<b>Establish Support process and metrics</b>
IT Staff Augmentation – Backfill	<b>Cybersecurity remediation &amp; roadmap</b>	Establish practices
Upskilling for IT team	Data Management roadmap	Agile Transformation

Current investments

# Metrics – Integral part to journey

<b>People</b> <i>Capacity and Skill</i>	<b>Technology</b> <i>Modernize, Secure, Inform</i>	<b>Process</b> <i>IT as Strategic Partner</i>
<b>Resource retention</b>	<b>Project metrics: velocity, cost, quality</b>	<b>Measuring “good support”</b>
<b>Skills matrix</b>	<b>% of cybersecurity findings remediated</b>	<b>Agile – velocity, quality, adoption</b>
	<b>System health score</b>	

Current investments

# Funding journey to cloud

		Expense Type	
		Implementation (New)	Ongoing
Funding Sources	Capital		IT operational budget
	Department program budgets		

# Risks – to cloud first

Risk	Handling
Significant change for IT	Investments in IT
Pent-up demand	Prioritization
Aged system breaks beyond repair	Accepted risk and adjust when impacted
Significant change for District	Change Management investments

# Questions?

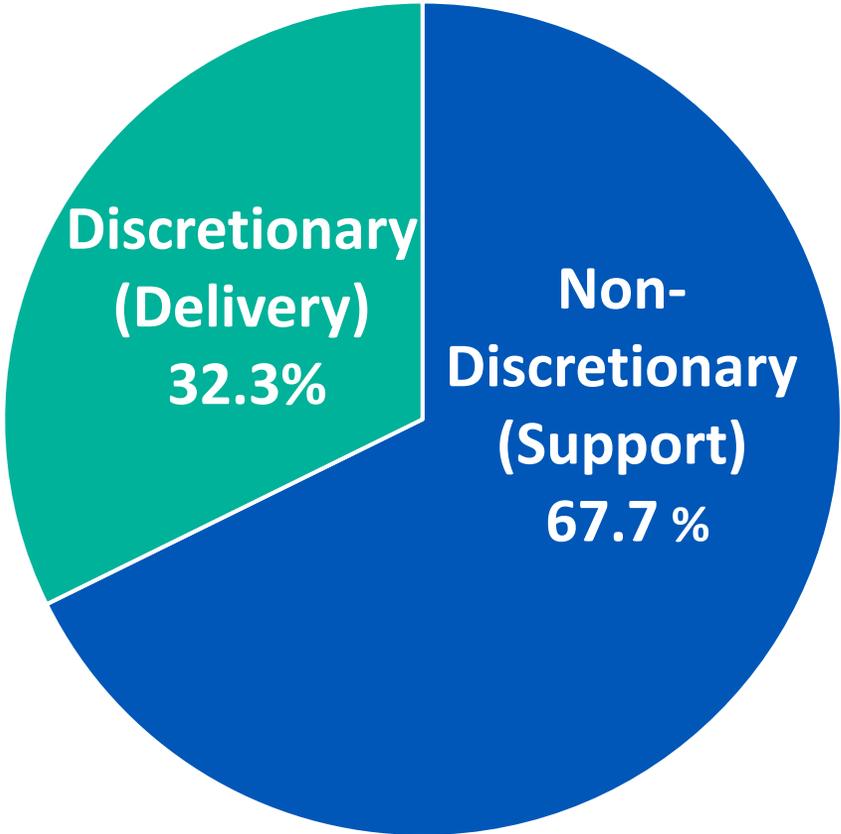


# Appendix

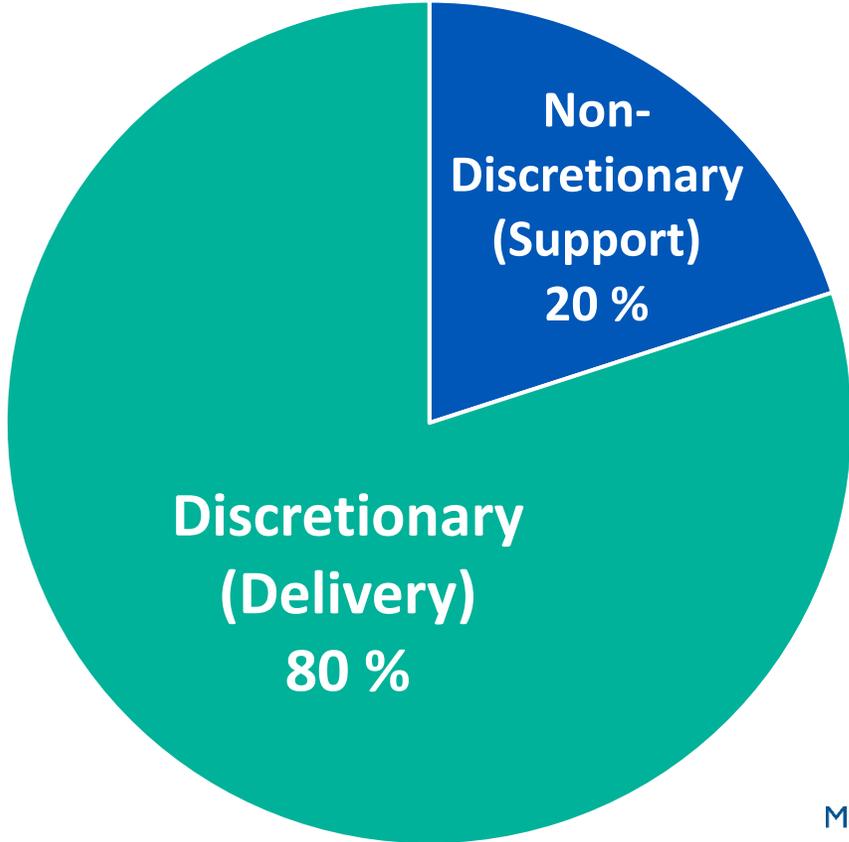


# IT Support Services

District

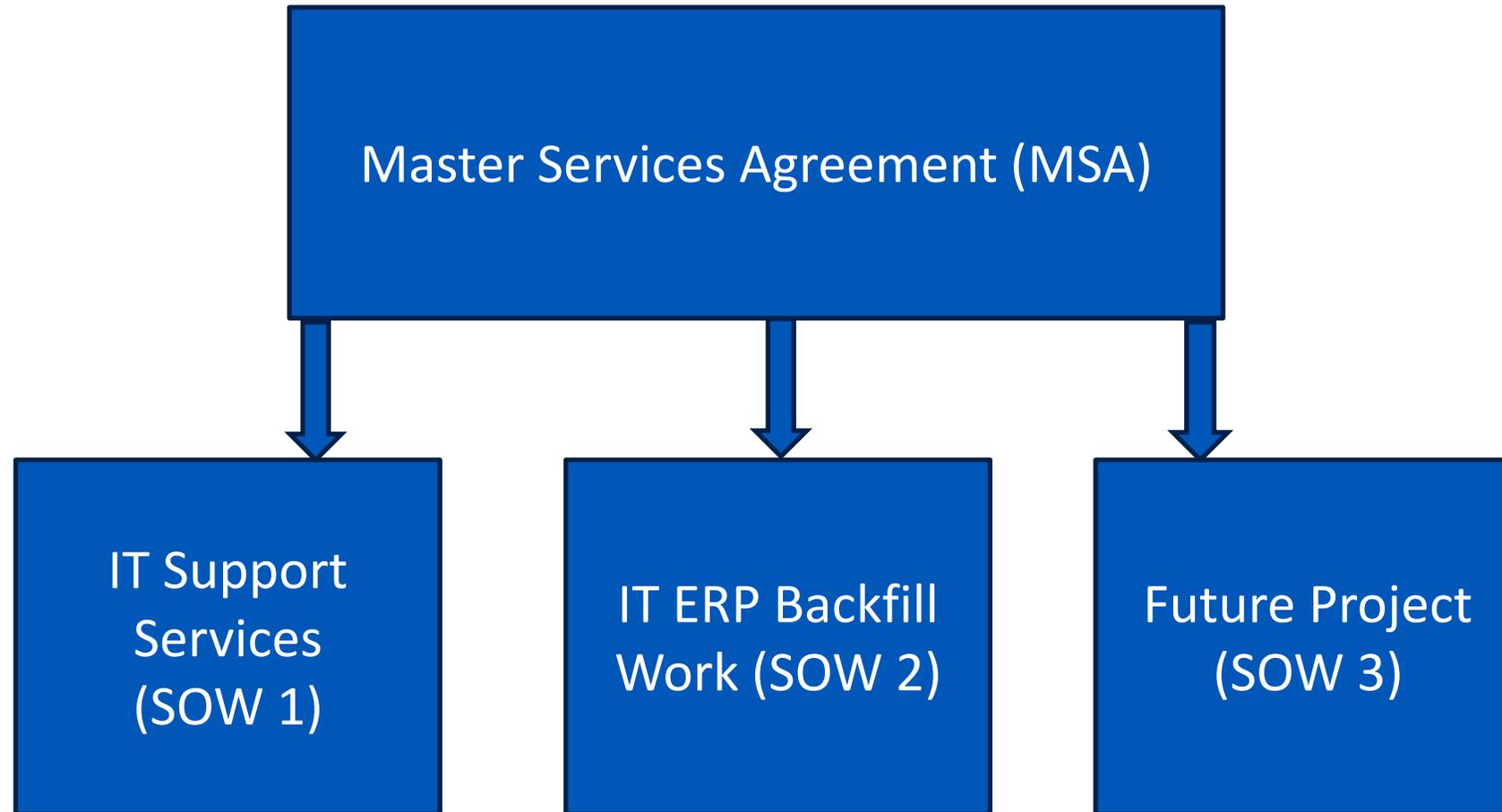


Industry



# Future Positioning

## Partnership



**Project(s)**

# SOWs require transactional authority approval

IT Support  
Services  
(SOW 1)



IT ERP Backfill  
Work (SOW 2)  
(Capital Budget)

Potential  
Modernization  
Projects

# History of IT: Mainframe Era

- **Strategic Role:**
  - Focus on automating routine business processes
- **Organizational impact:**
  - Business had little direct interaction or understanding of technology
- **Competitive Advantage:**
  - Small edge through operational efficiency



# History of IT: Personal Computing Era

- **Strategic Role:**
  - IT is in support function role with growing operational importance
- **Organizational impact:**
  - Business could use technology to do jobs
- **Competitive Advantage:**
  - Productivity gains and faster business adaptation



# History of IT: Client Server Era

- **Strategic Role:**
  - Network computing and enterprise applications
- **Organizational impact:**
  - IT leadership tasked to align technology investments with business objectives
- **Competitive Advantage:**
  - Streamlined operations and data management



# History of IT: Internet Era

- **Strategic Role:**
  - Network computing and enterprise applications
- **Organizational impact:**
  - IT role shifted to managing external relationships, security and web-based infrastructure
- **Competitive Advantage:**
  - Allowed business to engage and reach new markets



# History of IT: Cloud/Mobile Era

- **Strategic Role:**
  - Cloud platforms enable rapid scalability, innovation and digital transformation
- **Organizational impact:**
  - IT role expanded to support hybrid environments, data-driven decision making, and cybersecurity
- **Competitive Advantage:**
  - Have become table stakes



# History of IT: AI Era

- **Strategic Role:**
  - IT strategy is inseparable from business strategy. AI used to automate, and help District anticipate problems
- **Organizational impact:**
  - Technology is not just a tool; engine of innovation
- **Competitive Advantage:**
  - Leverage AI to process larges amount of data and automate decision-making





# Thank you

Madison Metropolitan  
Sewerage District

