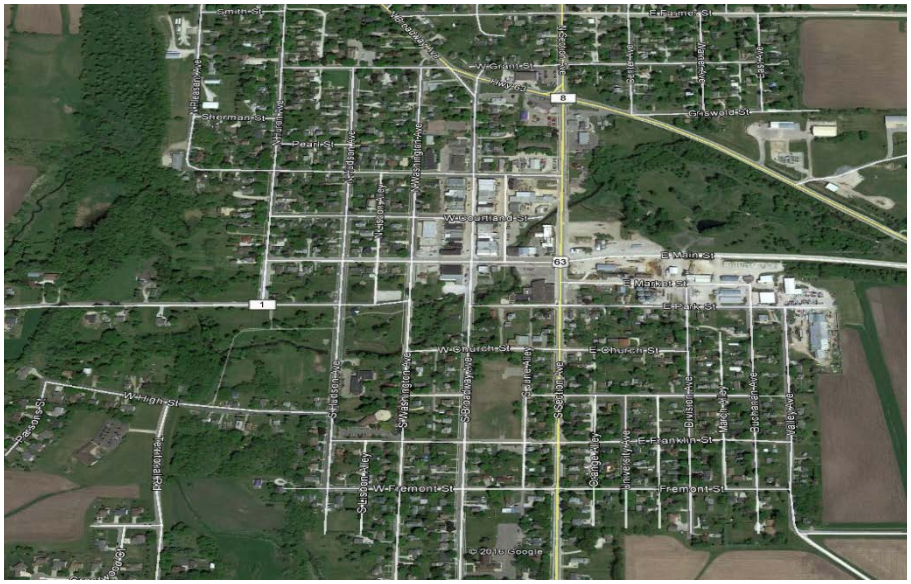
BOLTON & MENK

Real People. Real Solutions.

Informational Meeting
2018 Street & Utility Improvement Project

May 11, 2017

City of Spring Valley



Introductions

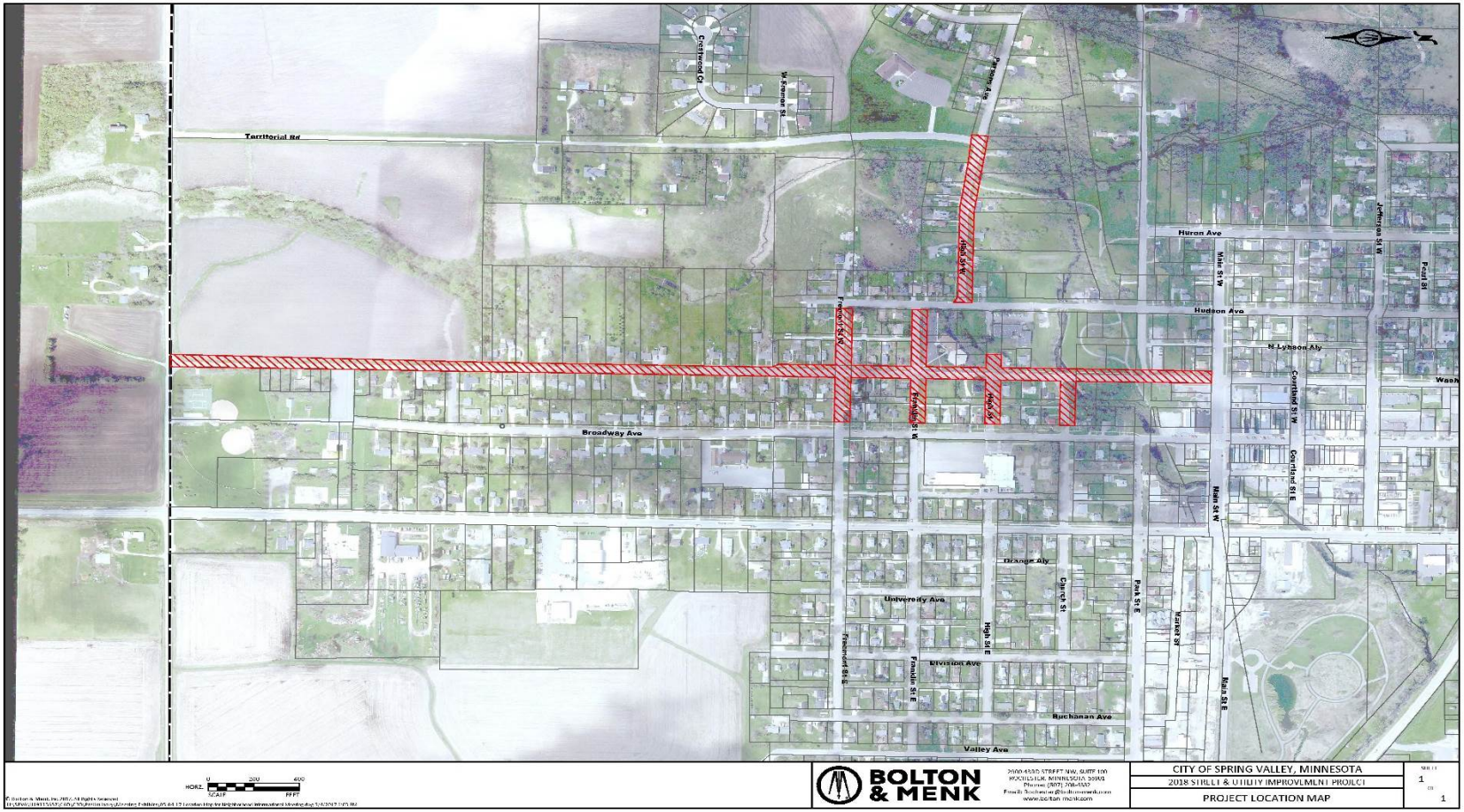
- Brian Malm, P.E. – Project Manager / City Engineer

- Bryan Holtz – Senior Engineering Technician

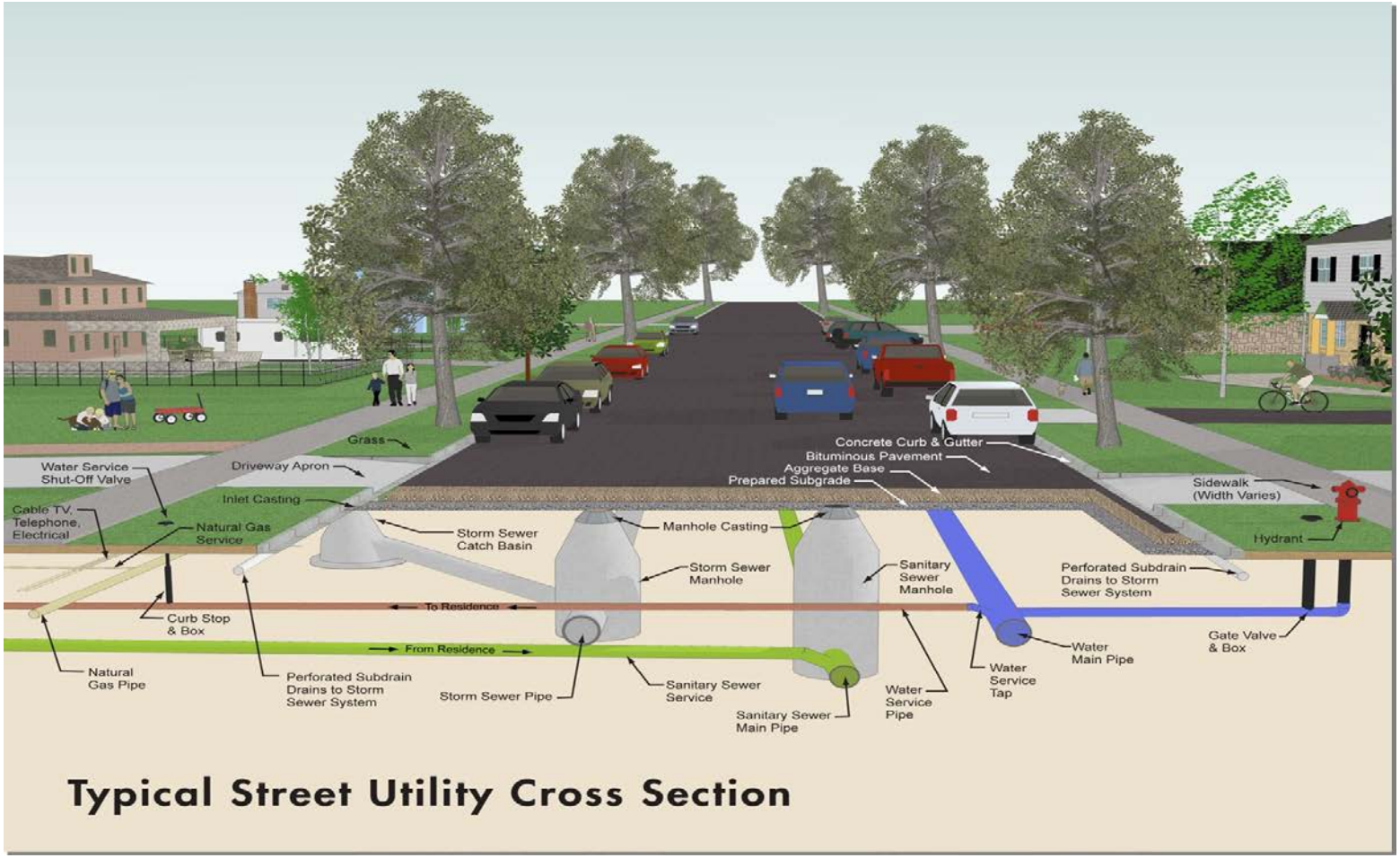
Agenda

- Why are we here?
- What is the problem?
- How can the problem be solved?
- What are the next steps?

Project Location



What is under a typical city street?



What is the problem?

- Street surfacing is in very poor condition.
- Concrete curb and gutter is not present for the majority of the project area.
- Sidewalks are not present or in poor condition.

What is the problem?

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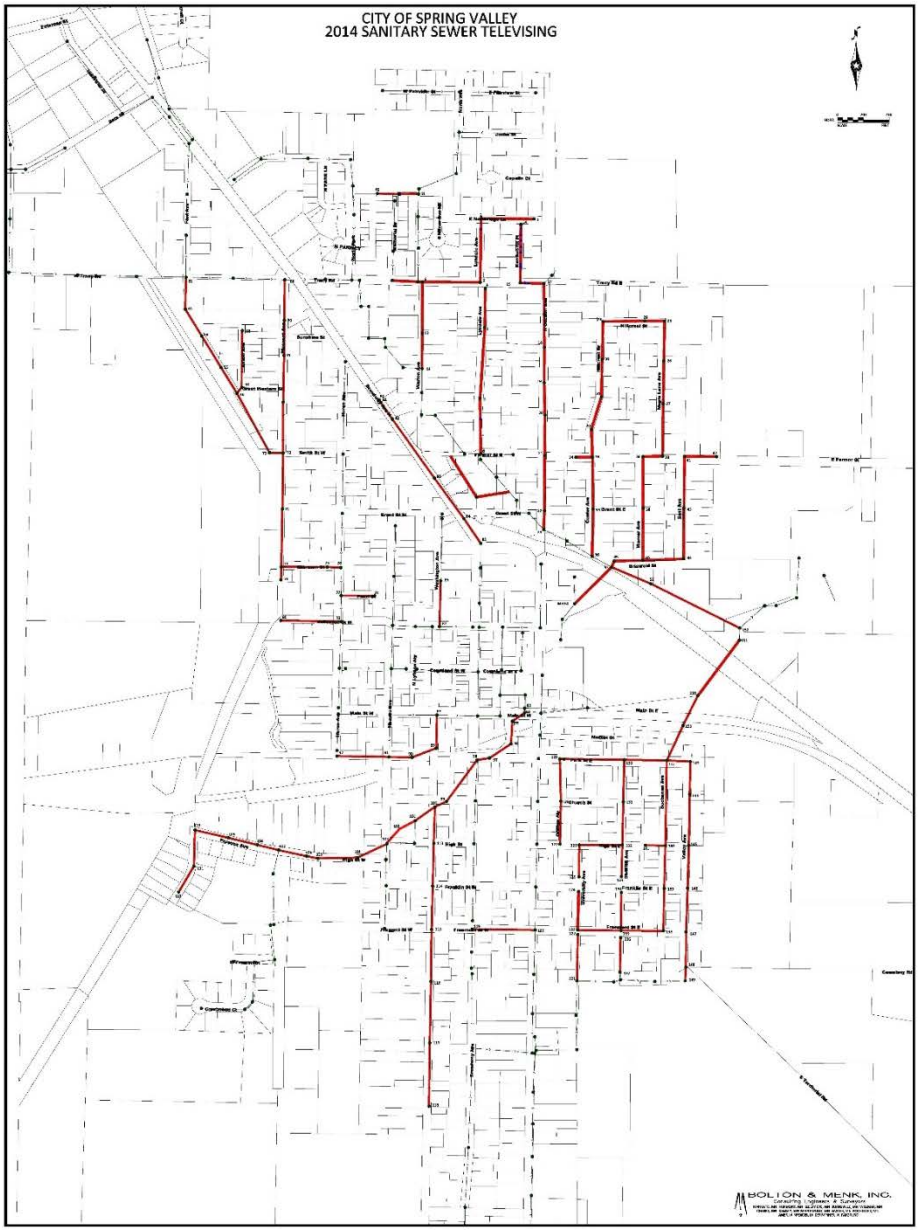
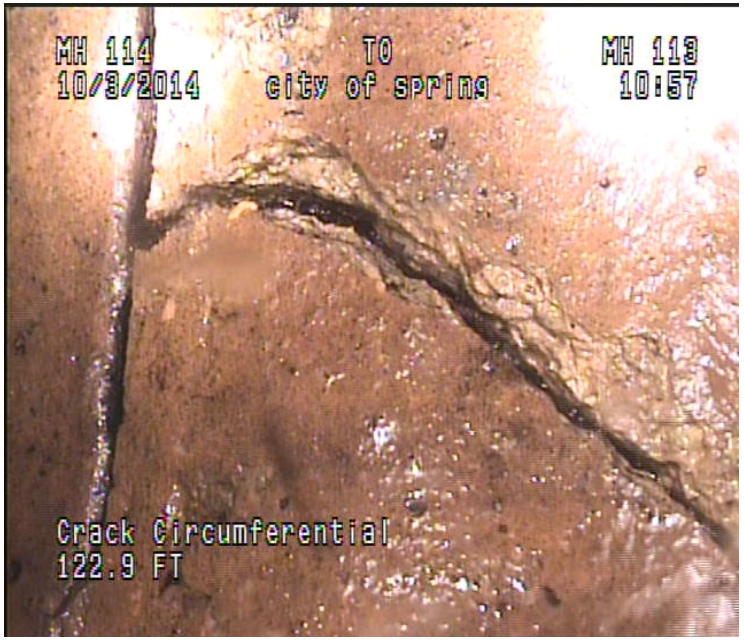
What is the Problem?

- Sanitary sewer pipe
  - Older pipe is vitrified clay pipe (VCP), prone to leakage, root intrusion, breakage
  - Newer pipe is typically poly-vinyl-chloride (PVC)
- City had concerns regarding the condition of the older sanitary sewer pipes.
- Began video inspection of pipes in spring of 2014.
- All VCP pipes have been inspected (approx. 50% of pipes in City).


CITY OF SPRING VALLEY
2014 SANITARY SEWER TELEVISING
BOLTON & MENK, INC.

What is the problem?

- Video Inspection revealed problems with VCP pipe throughout the system.



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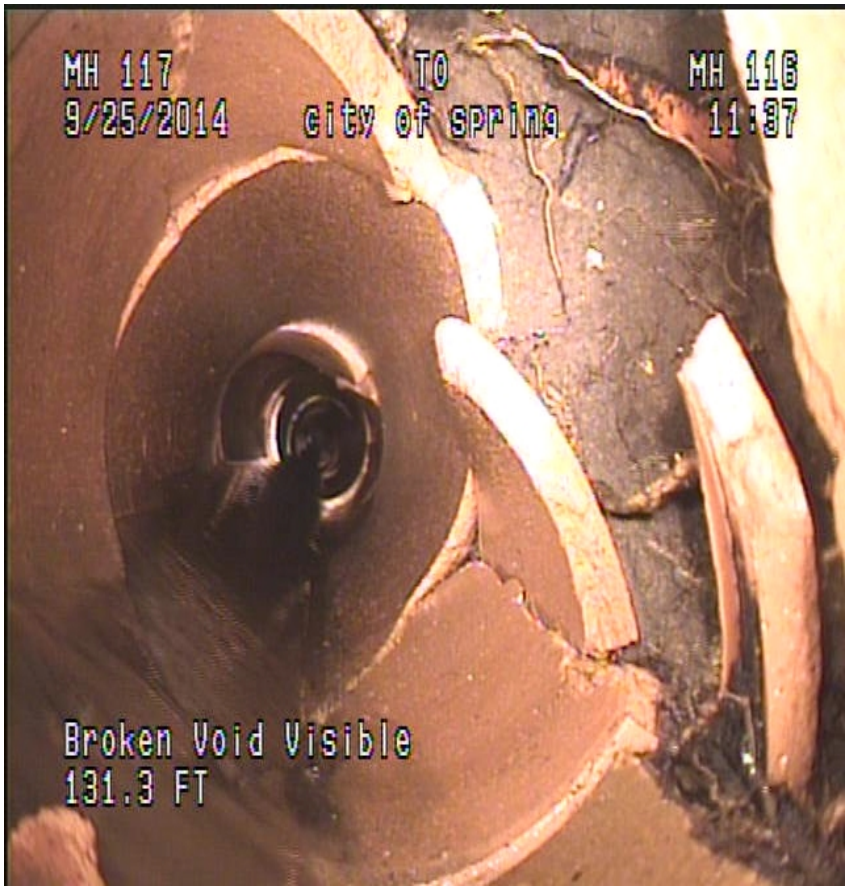

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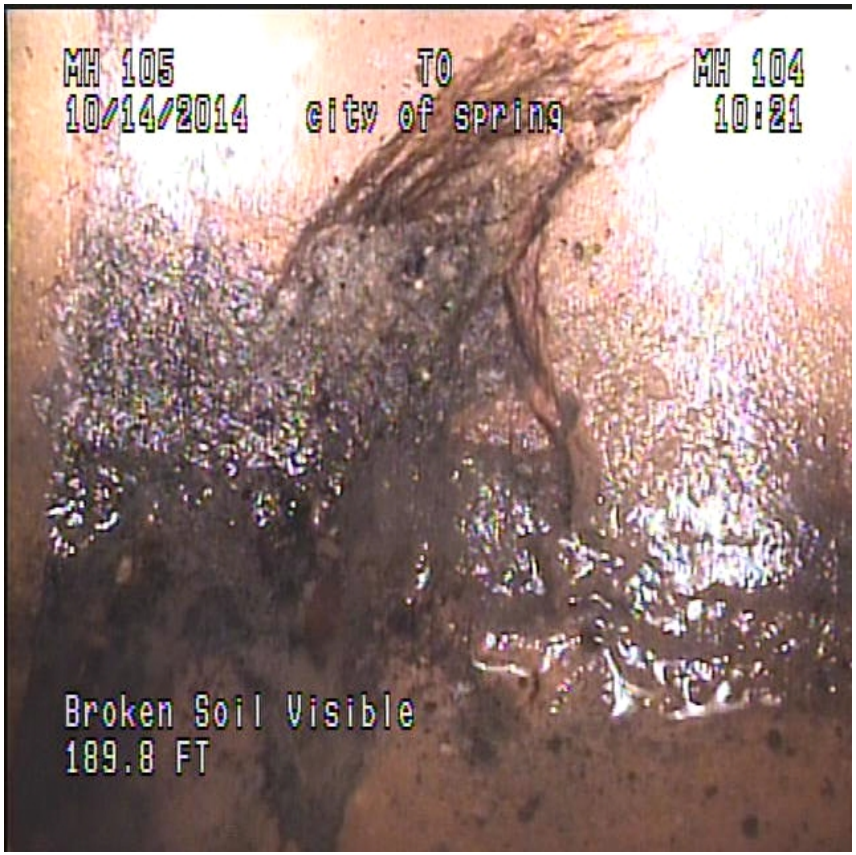

What is the problem?

- Video shows:
  - Broken pipe
  - Pipe blockage
  - Root intrusion
- These issues cause:
  - Sewage backups
  - Clean groundwater entering pipe, increases flows at the wastewater plant, adds cost to treatment
  - Sewage leaking out of the pipe, into the ground

What is the problem?

- Water main
  - Water main pipe size varies but the majority is 4-inch cast iron pipe, 50+ years old.
  - There have been numerous water main breaks.
  - Current pipe size is not adequate for fire protection.

What is the problem?

How can the problem be solved?

- Street surfacing has deteriorated to the point where full reconstruction is necessary.
- Bituminous pavement, aggregate base, concrete curb and gutter, concrete sidewalks and driveway aprons will be constructed throughout the project area.

How can the problems be solved?

- Sanitary Sewer and Water Main
  - Trenchless Repair
    - Lining or pipe bursting
    - Limits surface disturbance
  - Open Trench Repair
    - Dig up pipe and replace it

How can the problem be solved?

- Open trench construction is more cost effective when street surface needs to be replaced anyway.
- Trenchless repair not feasible in areas with extreme structural failure of the sanitary sewer pipe.

What are the next steps?

- Feasibility Report
  - Fully evaluates condition of existing street and utility infrastructure and recommends improvements to be made.
  - Will include detailed cost estimates.
  - City policy is that street reconstruction projects be assessed to the benefitting properties.
  - Feasibility Report will include estimated assessments.

What are the next steps?

- Second Informational Meeting
  - When a draft Feasibility Report is completed, a second informational meeting will be held to present the information and gather further input.
- Improvement Hearing
  - City Council will consider the Feasibility Report and may call for an Improvement Hearing.
  - Council decides whether to proceed with the project or not at this hearing. If the decision is to proceed, then plans are prepared and the project is bid.

What are the next steps?

- Assessment Hearing
  - After bids are received, a final assessment roll will be prepared and an assessment hearing will be held.
- Construction
  - Construction would proceed following the assessment hearing.

Key Take Away Points

- There is a significant problem with the street surface and underground utilities that needs to be addressed.
- The solution will likely involve full street and utility reconstruction.
- There are several steps and decision points in the process.

Key Take Away Points

- There will be much more information available in the future, and several more opportunities for public input.
- We will keep you informed through newsletters and official notices.

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Questions?