City Of Calgary ATSC 3.0 Signage Demonstration

Presented By
Erin Ruttan - City Of Calgary
Orren Johnson – Humber Polytechnic

AGENDA

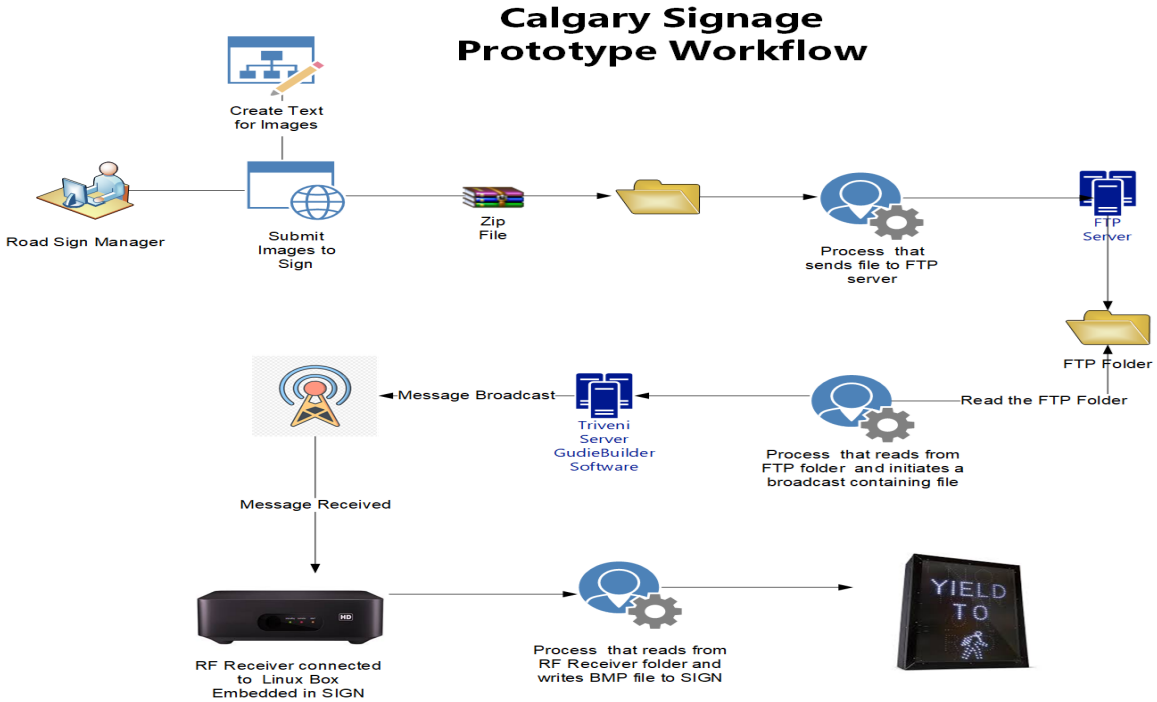
- An introduction to the team - 2 Mins
- An Overview of the Signage Architecture - 5 Mins
- Use cases & Stories 15 Mins
- Questions - 5 Mins

OVERVIEW

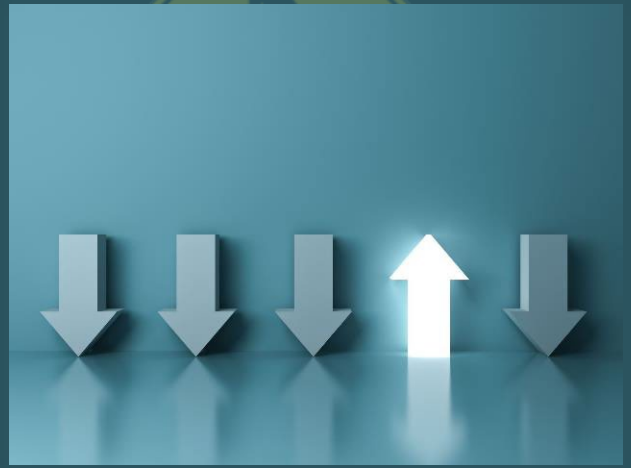
The essence of the Signage Prototype application for the city of Calgary is to demonstrate the ability to provide road sign changes and information to the public in case of emergencies when cellular and internet services are not available.

Using the ATSC 3.0 Protocol provides capability to send data via broadcast transmission to devices and thereby facilitate remote road sign changes.

OVERVIEW


Calgary Signage Prototype Workflow
Create Text for Images
Road Sign Manager
Submit Images to Sign
Zip File
Process that sends file to FTP server
FTP Server
FTP Folder
Read the FTP Folder
Process that reads from FTP folder and initiates a broadcast containing file
Triveni Server GudieBuilder Software
Message Broadcast
Message Received
RF Receiver connected to Linux Box Embedded in SIGN
Process that reads from RF Receiver folder and writes BMP file to SIGN
YIELD TO

give me a sign



Calgary
Picture this .....
Collision 10km ahead.
Take next exit to avoid delay

ONE WAY
Early Bird Special
$10

Questions?