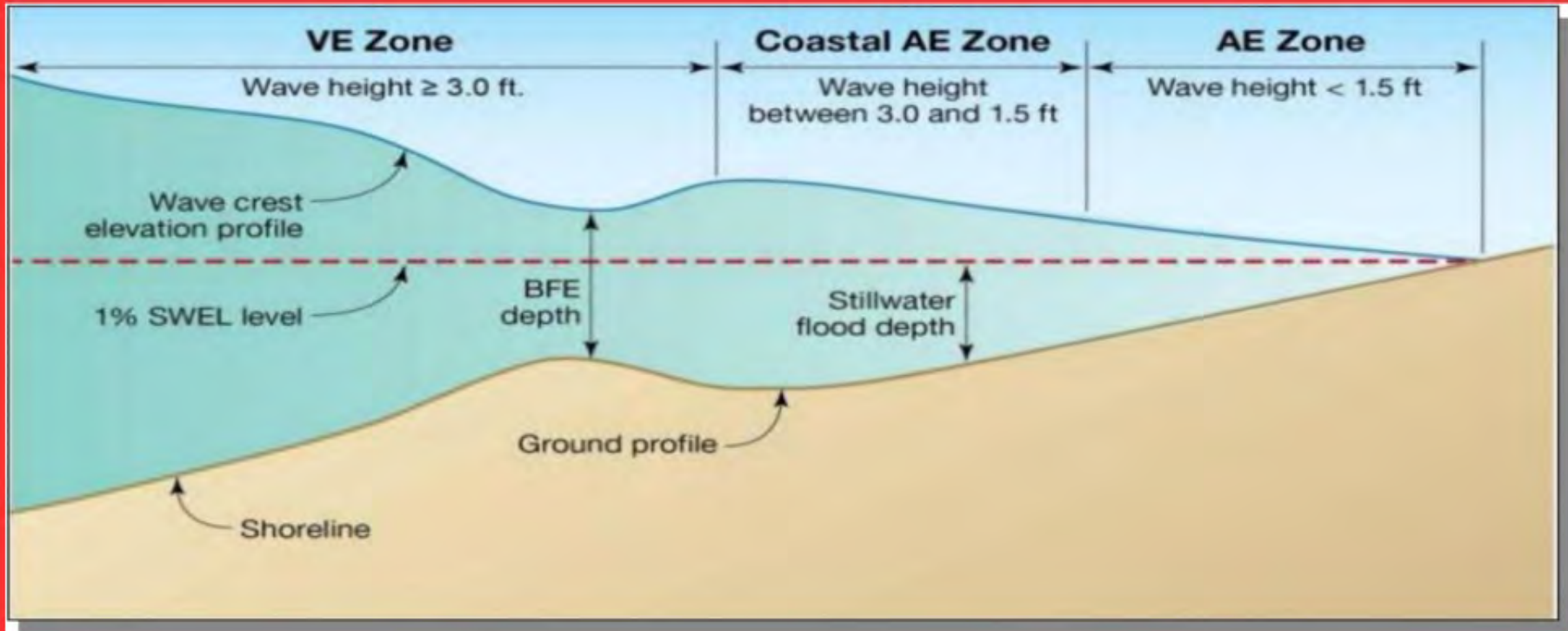


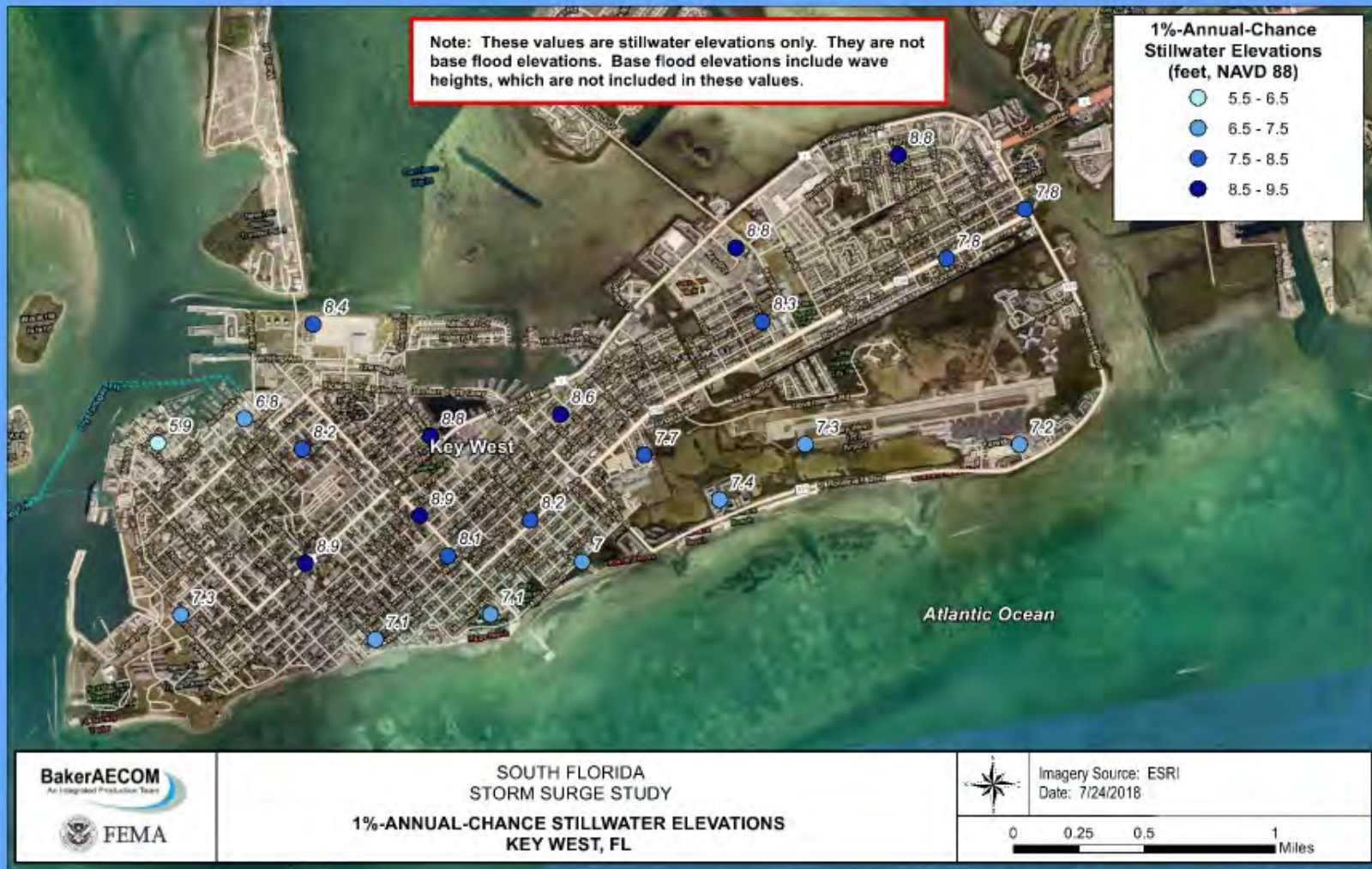
# Early Flood Map Projections













Source: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community



# Early Flood Map Projections



# Early Elevation Data

## Stillwater Elevation Site Comparisons

Comparison of current vs. proposed flood levels.

ID	Model	SWE 2020 F443D	SWE 2026 F670D	Elevation	Current EFE	Flood Zone 2005	EFE Change	Water over Grid	EFE - Elevation	SWE ngvd - Di
15	908508	8.9	10.25	7.7	0	AE	10.3	2.3	0	2.3
18	901278	8.9	10.25	6.6	0	AE	10.3	3.6	0	3.6
9	1002573	8.8	10.15	8.1	6	AE	4.2	10.2	5.9	10.1
20	1053378	8.2	9.35	6.6	6	AE	2.5	3	0	3
16	908579	8.1	9.45	5.1	6	AE	5.5	4.3	0.9	4.3
10	1002588	8.6	9.85	2.8	7	AE	3	7.2	4.2	7.2
2	930177	7.3	8.65	5.5	6	AE	2.6	11	0.5	3.1
16	1002577	8.5	9.85	6.6	7	AE	3.6	3	1.4	3



# Early Elevation

Stillwater El

Comp

ID	Model	SWE 2020 (mm)	SWE 2026 (mm)	Elevation (m)
15	905508	8.9	10.25	7.7
18	901278	8.9	10.25	6.6
9	1802573	8.8	10.12	6.1
20	1853376	8.2	9.35	6.6
16	908579	8.1	9.45	5.1
10	1862586	8.0	9.02	2.8
2	930177	7.3	8.65	5.5
11	1880217	6.5	8.05	6.8



2000 Block Patterson Ave.

Mid-Town



2000 Block Patterson Ave.

Mid-Town



## 1900 Block Patterson Avenue



## 1900 Block Patterson Avenue



# 1900 Block Patterson Avenue



# Geraldine & Fort Streets

# Old-Town





1100 Block South Street



# 1100 Block South Street



1100 Block South Street



Lowe Ln.



Outside flood zone now

## 600 block Truman Avenue



1100 block White Street



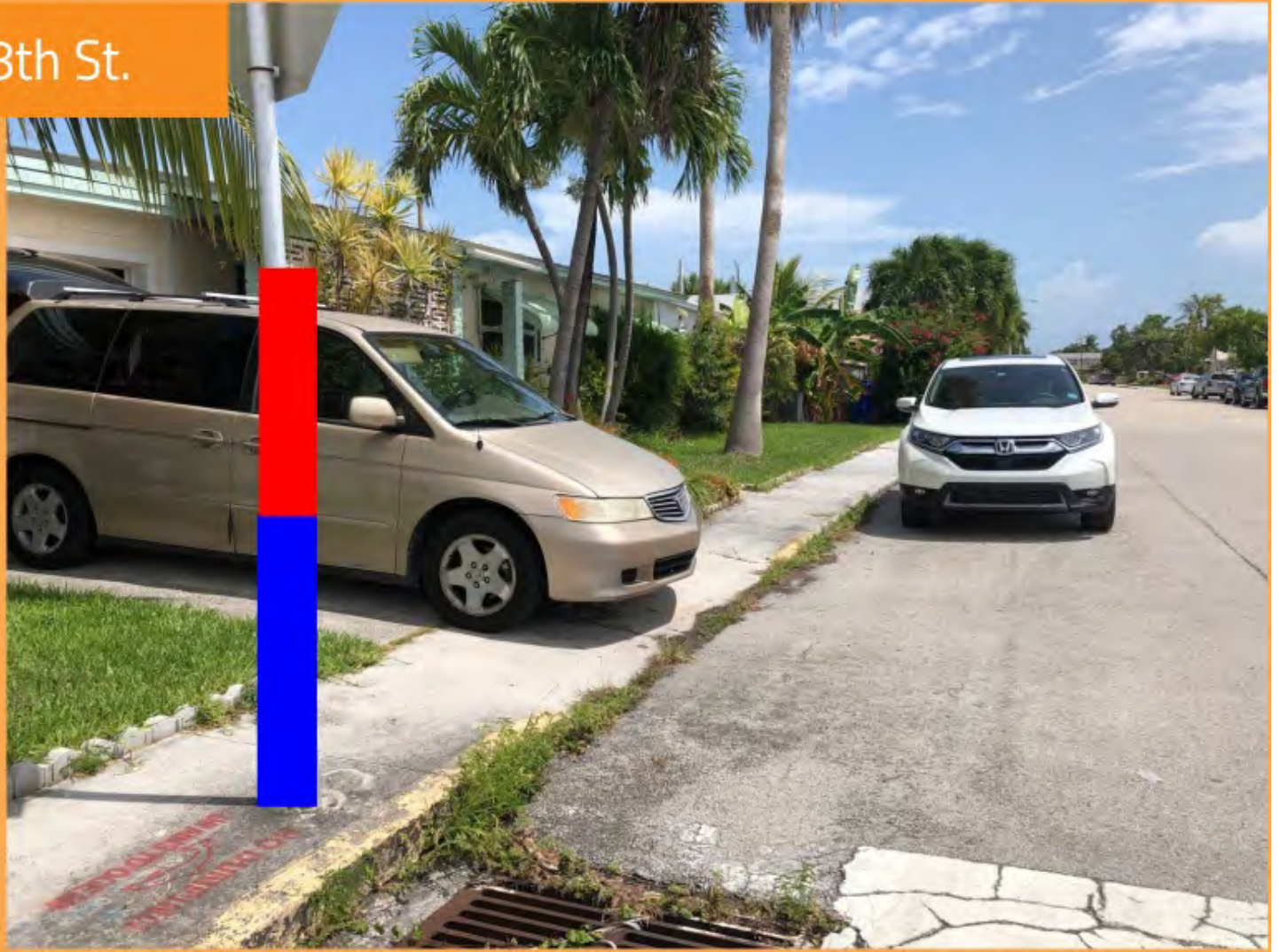
Outside flood zone now

Northside Dr. & 18th St.

New-Town

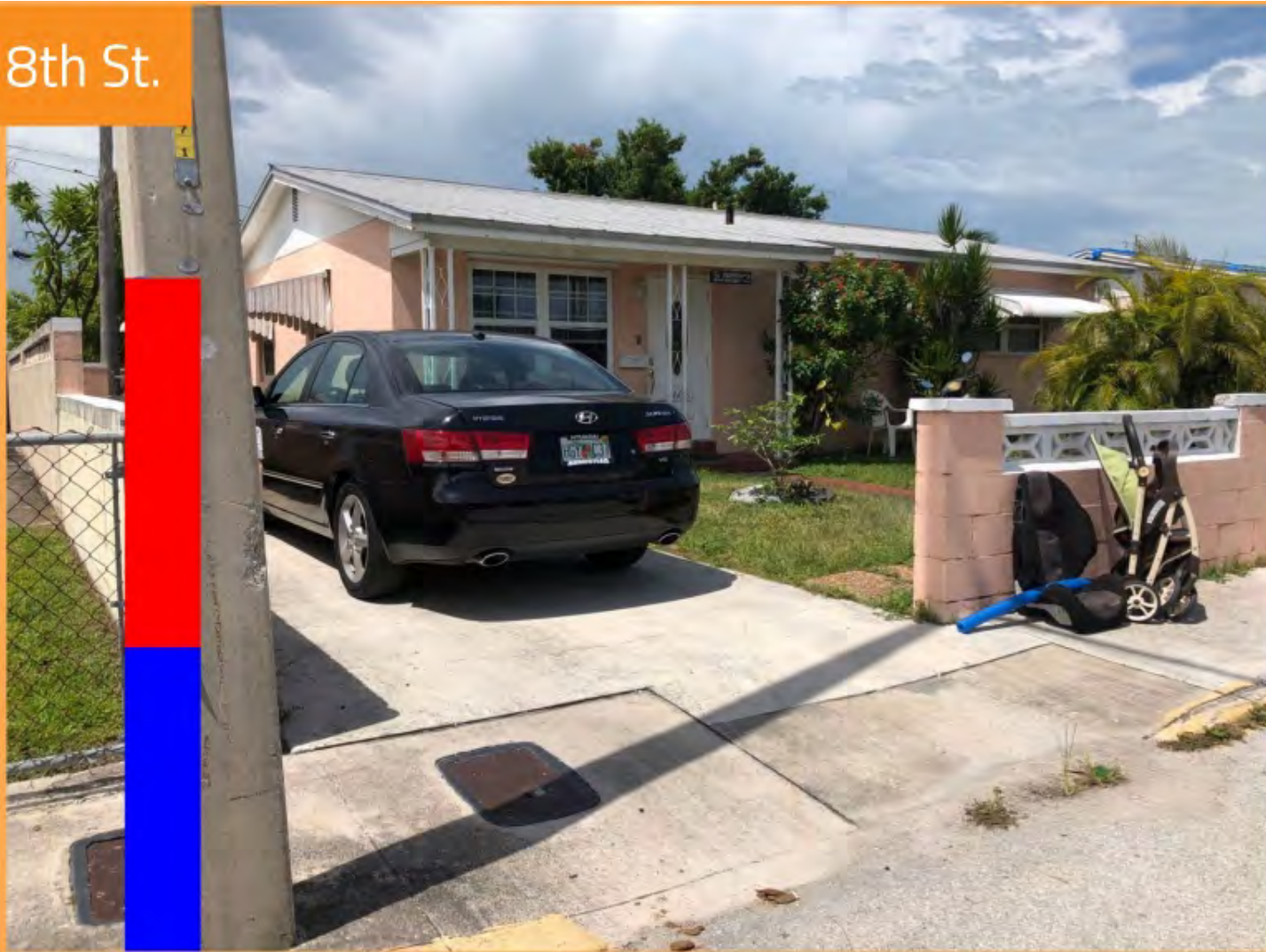


Northside Dr. & 18th St.





Northside Dr. & 18th St.



# X-Zone



Current

- Flood insurance not required
- Few construction requirements
- No 50% rule

# X-Zone



**Current**



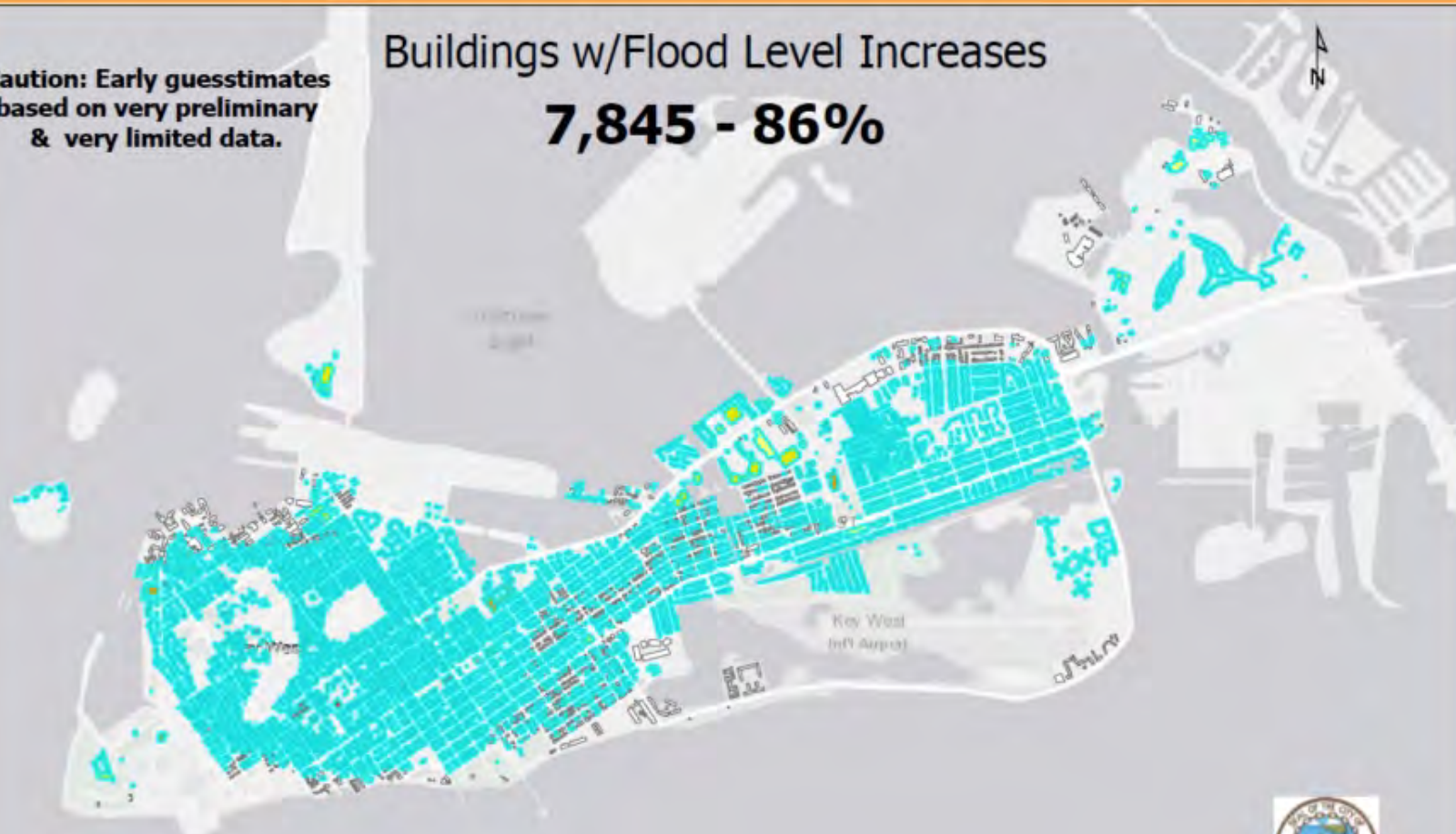
**Proposed**

# Analysis

Caution: Early guesstimates based on very preliminary & very limited data.

# Buildings w/Flood Level Increases

## 7,845 - 86%



Buildings highlighted in cyan expecting flood level increases.



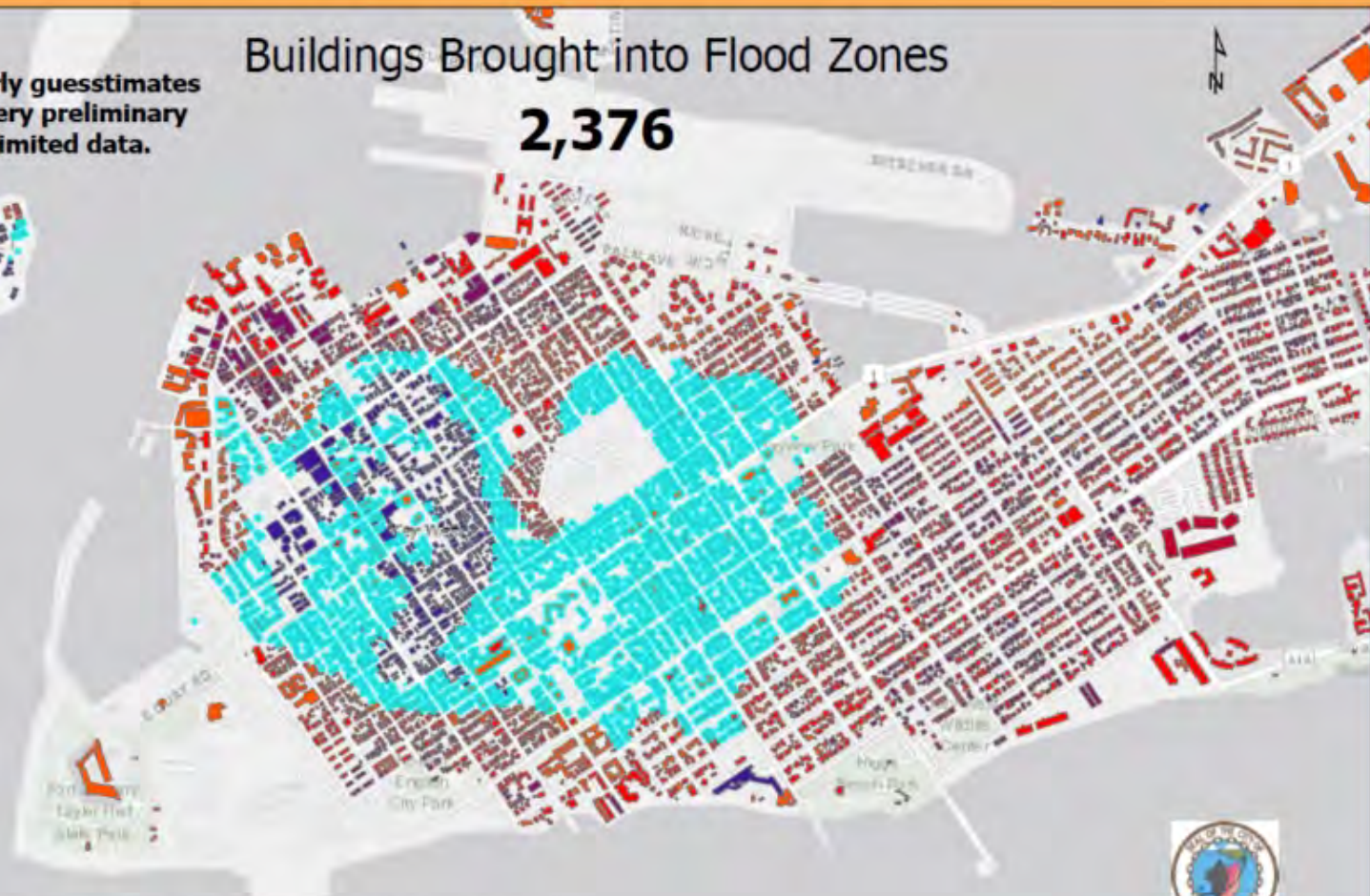
Current Time: 10/5/2018 9:45 PM

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Caution: Early guesstimates based on very preliminary & very limited data.

## Buildings Brought into Flood Zones

# 2,376



Buildings highlighted in cyan were in an "X" zone, to be remapped into regulated floodplain.



Current Time: 10/5/2018 7:16 PM

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# Flood Map Revision Timeline (estimated)

- **Draft maps – 2nd Quarter 2019**
  - **30-day comment period**
- **Preliminary maps – 3rd Quarter 2019**
  - **90-day appeal period**
- **Resultant changes may prompt 2nd-review period**
- **Letter of Final Determination -2020**
  - **City must adopt by 6-month effective date**



## Steps FIRM Has Taken







**TASK  
FORCE**

## **Formed Task Forces**

- **FIRM / County / Municipalities**
- **FIRM / Realtors**



**Contracted with Ransom  
Consulting to Gather & Evaluate  
FEMA Map Input Data & Modeling**



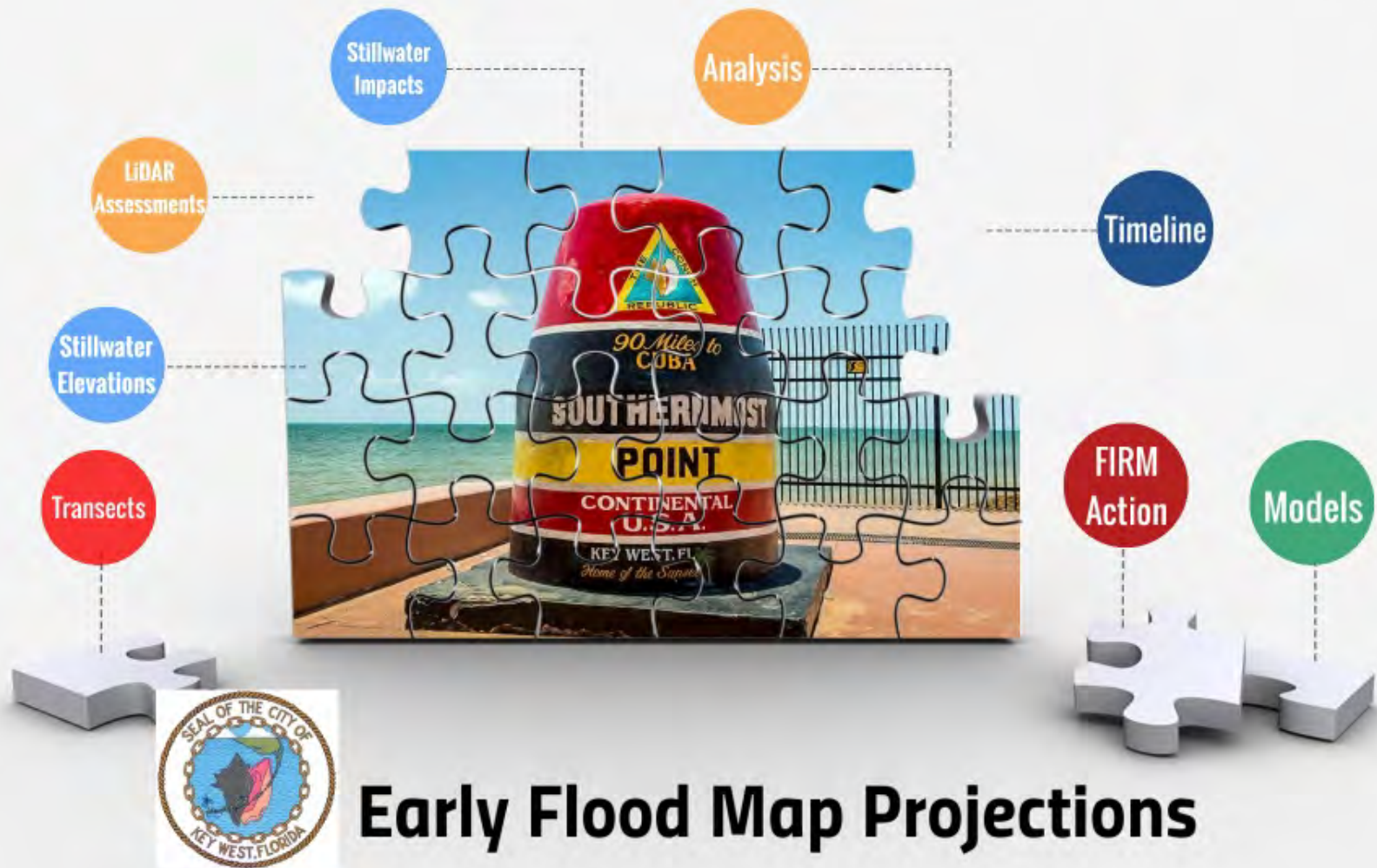
## Wind Model Differences

**AIR**    \$51,931,988

**RMS**    \$21,457,794

**EQE**    \$40,265,536

**FPM**    \$32,096,058



## Early Flood Map Projections