Web API

Opportunities, Challenges, and the Next Evolution of Real Estate Data

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We Replicate

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Web API Replication

Supported by 100s of MLSs

Rapid maturation in the last 6 months

Allows for more efficient and advanced data handling capabilities for vendors like us

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Learning from other growth industries

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a story

hundreds and thousands of local data sources,

industry-wide data standards,

changing outdated print experiences to digital,

building the early applications to change the consumer experience,

lowering costs for local data vendors while helping them improve their data

acquisitions and investments in the hundreds of millions and billions of dollars

disruption when industry outsiders disregard standards and data sources

acceleration of existing industry players to compete

a drastic increase in consumer usage and revenue for everyone

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HERE Technologies

Largest supplier of spatial data globally

$880M IPO

$8.1B Acquisition

$1B+ Annual Data Revenue

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navigation systems

census and local uses

smartphone apps

fleet tracking

athletic and health applications

TV & radio traffic reporting

video games

data used in

self-driving cars

smarter cities

GIS applications

movie scene creation

weather and climate modeling

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100+ navigable countries

2D & 3D data

2.4 million changes per day

Raw data in counted in **petabytes** (a petabyte is a million gigabytes)

225+ attributes

about the data

35 M+ kilometers

Real-time local data including traffic, fuel prices, road closures, events, parking, etc

Each car collects 140 GB of data per day

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Field data collection

Real-time probes and sources

Expert communities

Partners

data creation

Production teams

Local source data (data sharing with cities, counties, states, federal, local private companies, etc.)

End-users

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spatial milestones

1984: Tele Atlas founded
1987: Navteq founded
1999: AOL buys MapQuest for $1.1 Billion
2000: Vicinity IPOs for $120 Million
2002: Microsoft acquires Vicinity for $96 Million
2006: Navteq acquires traffic.com for $179 Million
2007: Nokia acquires Navteq for $8.1 Billion
2007: Microsoft Acquires MultiMap
2007: TomTom acquires Tele Atlas for €2 Billion
2007: Google invests $300 Million to build out their own data.
2013: Google Acquires Waze for $966 Million
2014: Inrix Raises $50M ($68 Million)
2015: Consortium acquires HERE for €2.8 Billion
2017: Mapbox Raises $164 Million ($63M raised prior)

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Web API
first impressions

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first impressions

better documentation

great community support

improved standardization

better long term option to RETS

cheaper to support

familiar restful protocol

happier developers

some early divergence from the data dictionary

replication growing pains when we first started

forced adoption

rushed moves to drop RETS

not plug and play to replace RETS

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strengths

An opportunity for us as an industry to learn from our RETS experience…

Standardization
Documentation
Community

strengths

Speed

Developer familiarity & happiness

Flexibility

Fast iteration

Less processor intensive

Active developer community

Improved documentation

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it's not RETS

Larger datasets
Connection limitations
More storage intensive
Less processor intensive
Very different ETL model
Still maturing and evolving
Commitment to get it right

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our lessons learned

Don't rush the transition to Web API

Understand that Web API isn't RETS

Local caching is super important

$EXPAND queries for media should be a requirement

Refinement of the initial "download" process

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our lessons learned

Use the resources out there

Contribute to the resources out there

Partnership is important

RESO is important

thank you

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