



RPR®

REALTORS
PROPERTY
RESOURCE

TECHNOLOGY • ANALYTICS • INNOVATION

RESO Spring Conference

June 3, 2015



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Project vision

Upstream

A single point of listing entry, management, and distribution for brokerages

AMP™

A parcel-centric database to power MLS services

Leveraging RPR Assets

166

Million
Parcels



392

Million
Photos



130

Million
Tax Records



162

Million
Deeds



132

Million
Mortgages



17

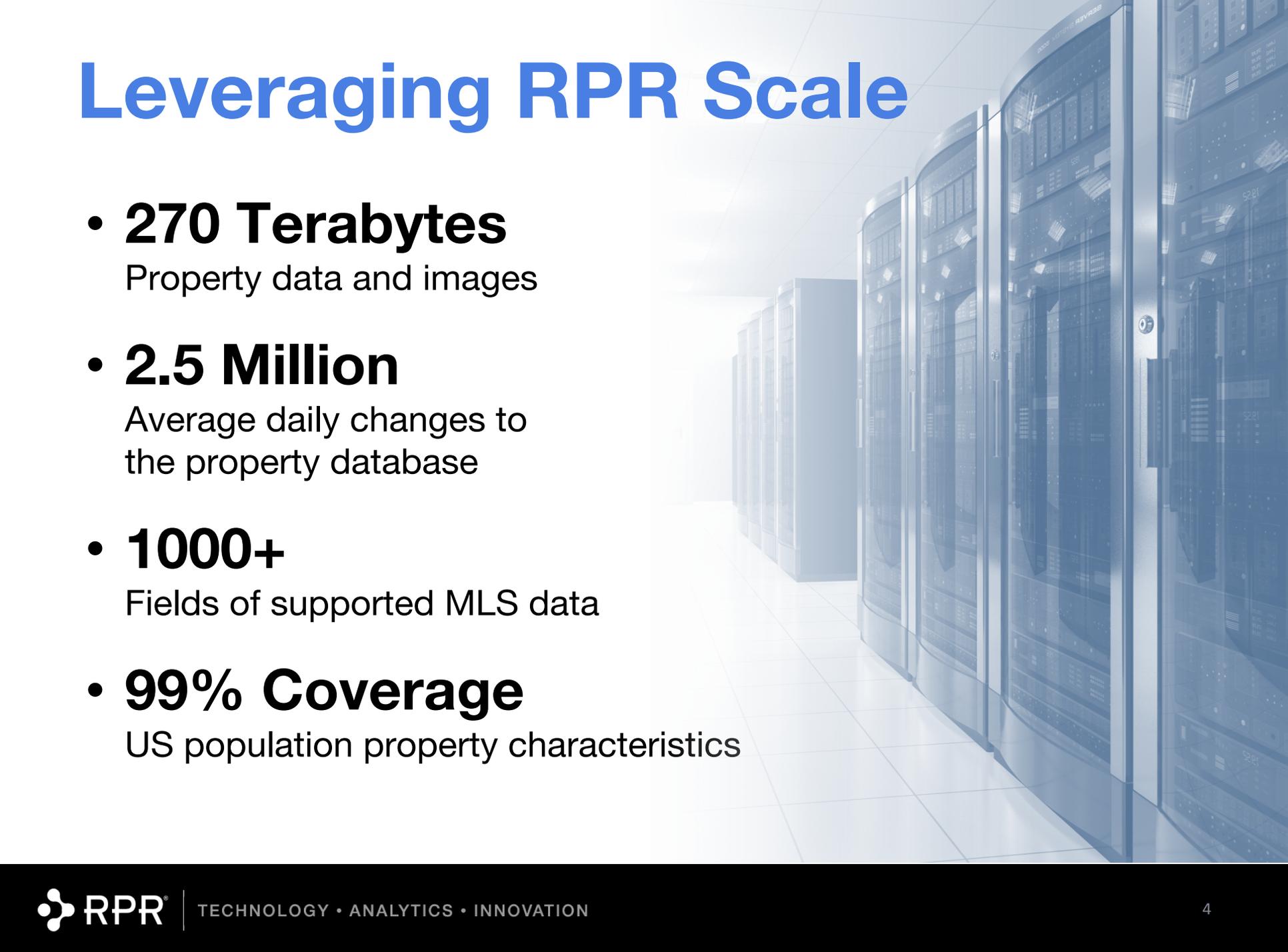
Million
Default
Records



8.2

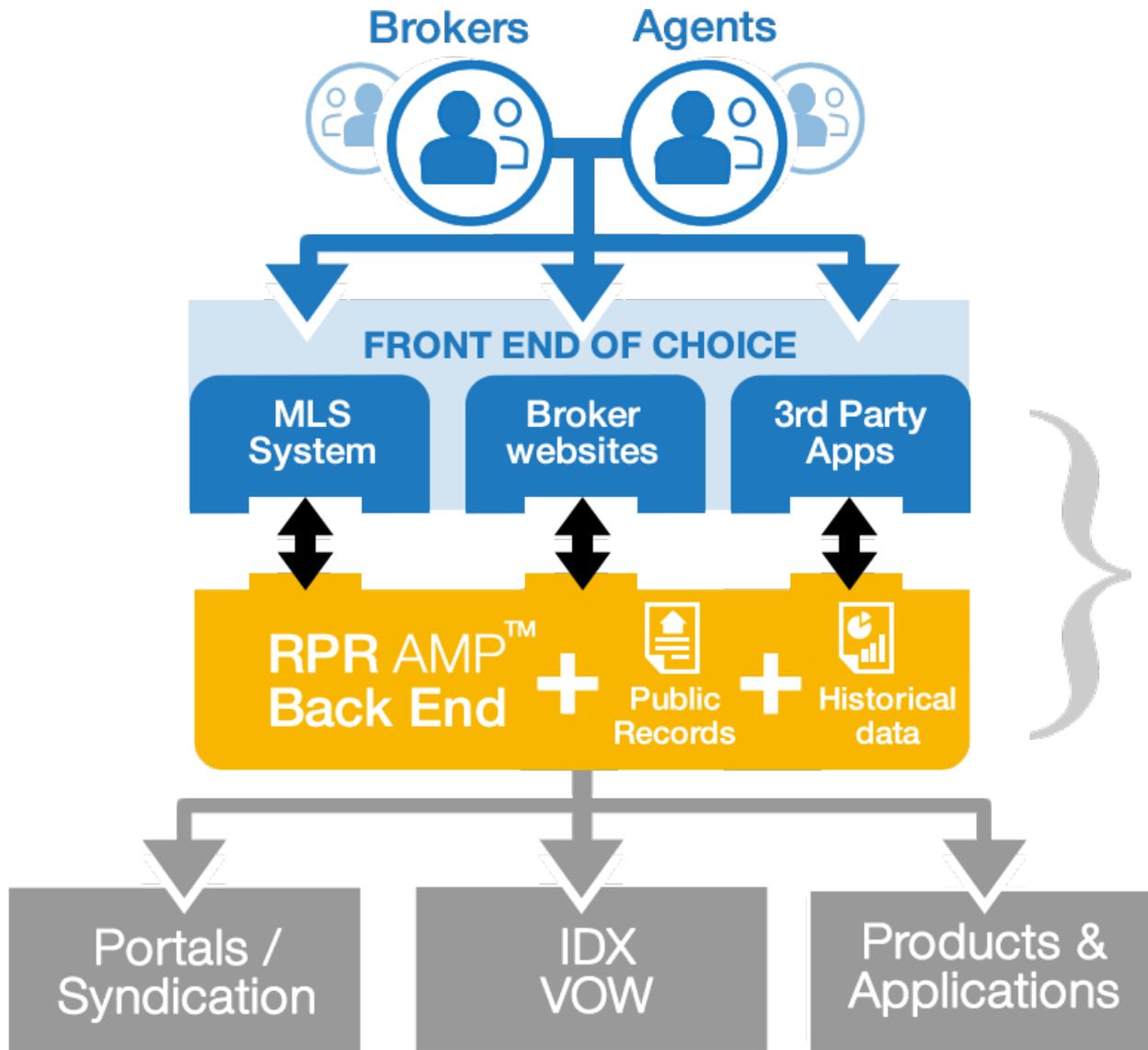
Billion
Valuations

Leveraging RPR Scale



- **270 Terabytes**
Property data and images
- **2.5 Million**
Average daily changes to the property database
- **1000+**
Fields of supported MLS data
- **99% Coverage**
US population property characteristics

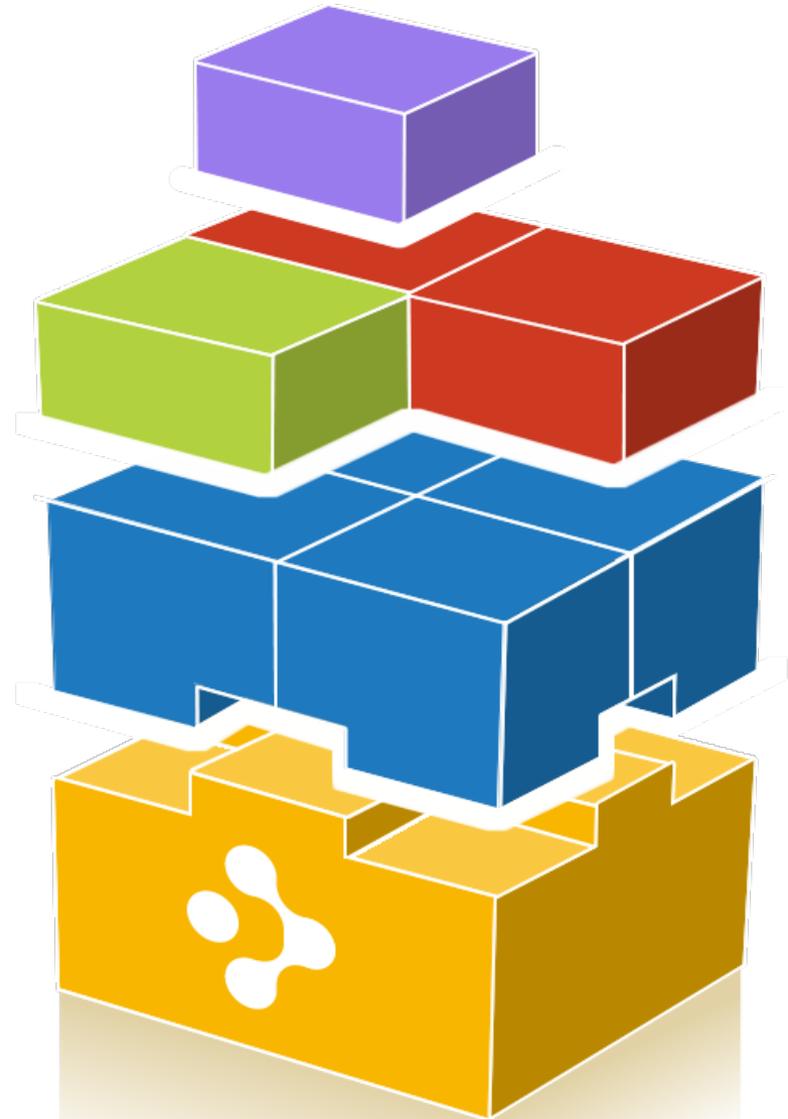
A framework for applications



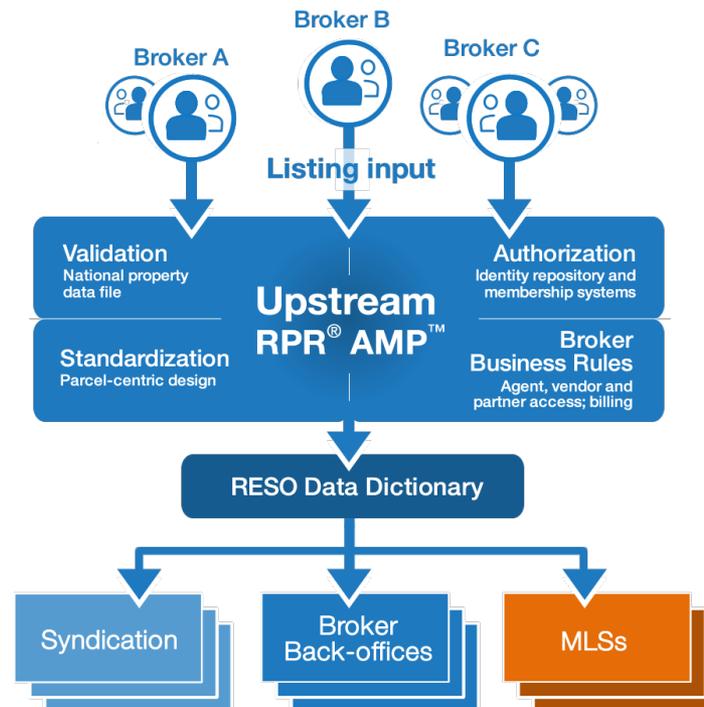
- Any front end system can work with the RPR AMP back end
- Support for many possible front end systems

Platform for innovation

- Not a MLS provider
- Parcel-centric / policy-centric national database
- Separates the front-end from the back-end
- Leaves rules, regs, governance, compliance, standards, etc. to the MLS
- Empowers MLSs and vendors to provide many options and services to Brokers



A Broker data application



- Upstream leverages RPR AMP, a parcel-centric back-end platform with national scale.
- Inherent identity and security model, to support the Brokers' business rules.

Upstream Brokers and Franchises

- Baird & Warner
- Berkshire Hathaway
Home Services Affiliates
- Better Homes and Gardens
- Century 21 Clemens & Sons Realty, Inc.
- Coldwell Banker
- Crye-Leike Real Estate
- ERA
- HomeServices of America
- Keller Williams International
- Leading Real Estate Companies
of the World
- Long & Foster
- Northwood Realty
- NRT

From the Upstream RFP

- Broker needs
 - Add / edit data
 - Normalized storage
 - Universal distribution
- Desired solution components
 - Standardized repository
 - Common input
 - Data distribution hub

Upstream and RESO

Requirements of the RFP:

- “The database repository will adhere to the latest data dictionary managed and maintained by the RESO organization.”
- “Data input must follow the RESO standards to support RETS Upload to MLS systems. It is understood that there are only few, if any MLSs support firms using RETS to upload and update MLS systems today.”

Embracing the concept of standards

- Upstream's standards requirement is a call-to-action and an opportunity
- A three-step transitional strategy
 1. "Read" access using RESO Web API ("reverse distribution")
 2. Publish/subscribe extensions
 3. Collaborate on Update for RESO Web API

How can RESO help?

- Data Dictionary Certification for Upstream services
- Upstream membership in RESO
- Promote efforts to document “Publish / subscribe” and “Update” for RESO Web API
- Upstream is a large-scale case for the RESO Data Dictionary and Web API that can accelerate implementation and move the entire industry forward



Thank you.