Visualizing Rhode Island's Housing Ecosystem

A presentation to the
Rhode Island Housing Resources Commission
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About HousingWorks RI at RWU

- Founded in 2004

- Integrated into Roger Williams University in 2014

- Conduct research and analyze data related to housing affordability in Rhode Island

- Connect the dots between housing affordability and economic development, and outcomes in health and education

- Publish annual Housing Fact Book in addition to issue briefs and special reports

- Visit www.housingworksri.org for more information

Scope of Work

➢ Build on existing housing system analyses

➢ Design systems "map" (visualization)

  ▪ Identifies stakeholders
  ▪ Role of stakeholders
    ✓ Intersections
    ✓ Statutory powers and duties
    ✓ Relationships to funding sources
    ✓ Target areas of responsibility
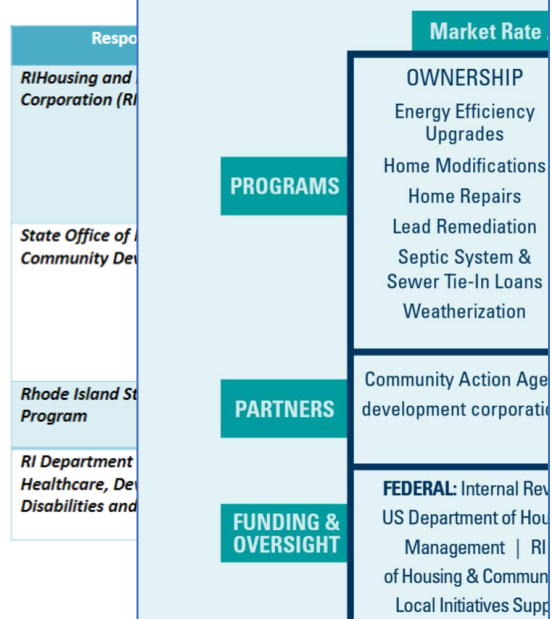
➢ Written report in addition to the visualizations

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Existing Analyses
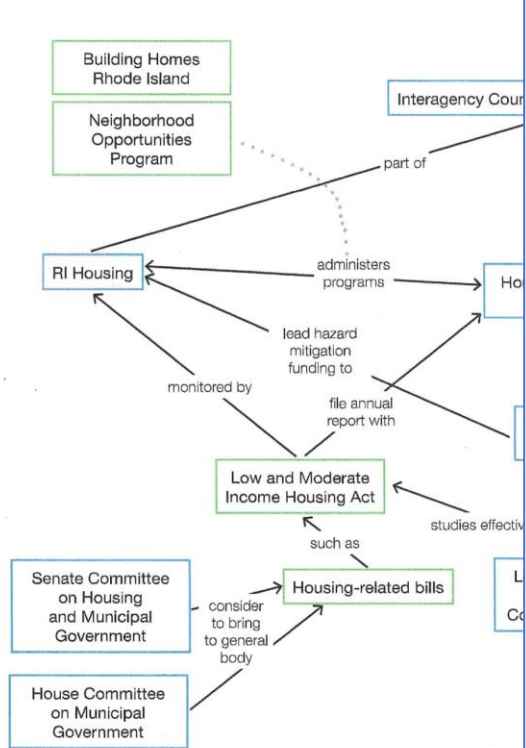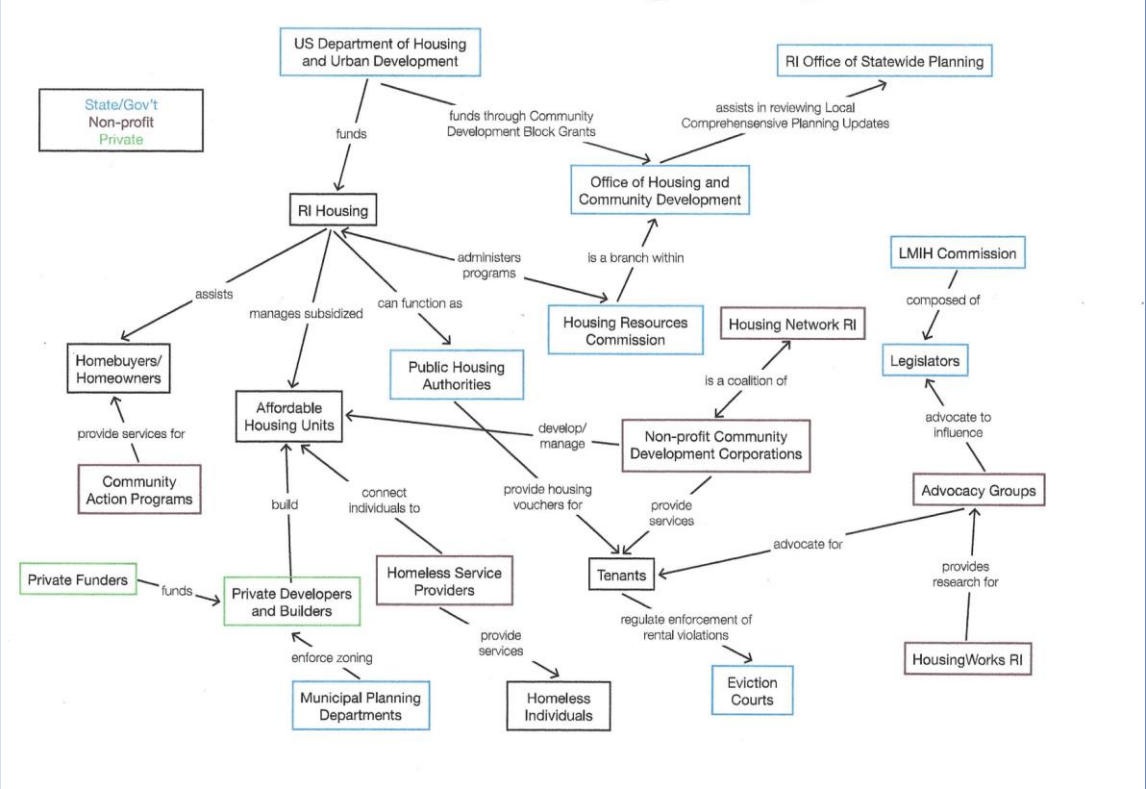
HWRI's Methodology & Components

1. **Methodology:**
   a. Based on flow of funding—DOES NOT INCLUDE ARPA/SFRF
2. **Major components:**
   a. Source
   b. Program (organized by allocated/competitive and purpose)
   c. Amount of funding (most recent/best available)
   d. Entity deciding/making the award
   e. Entity disbursing the award (administering the program)

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Caveats

➢ As inclusive a model as possible, however, did not accommodate private financial mortgage market
➢ Still may be errors and/or subjective choices that others may think about differently
➢ Work-in-progress

Working Visualizations: Excel

➤ Rejected, though could "live" somewhere
➤ Color coding
➤ Allows for extensive comments
➤ Links within

Working Visualizations: Hierarchical (US HUD)
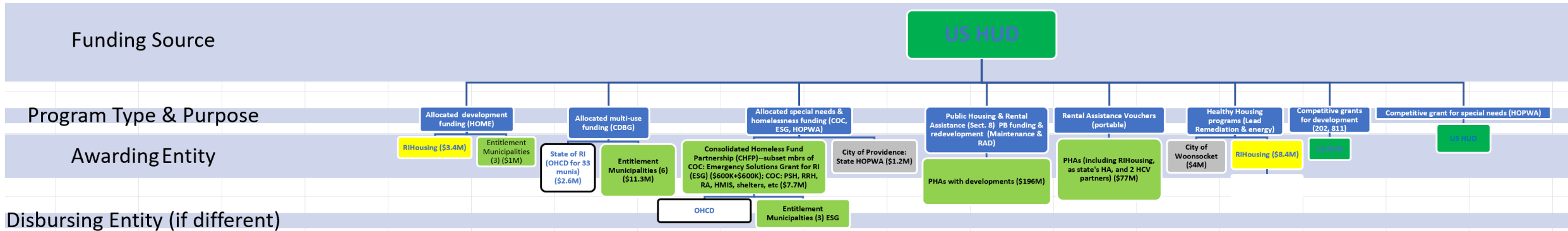
➤ Traditional visually, but difficult to read
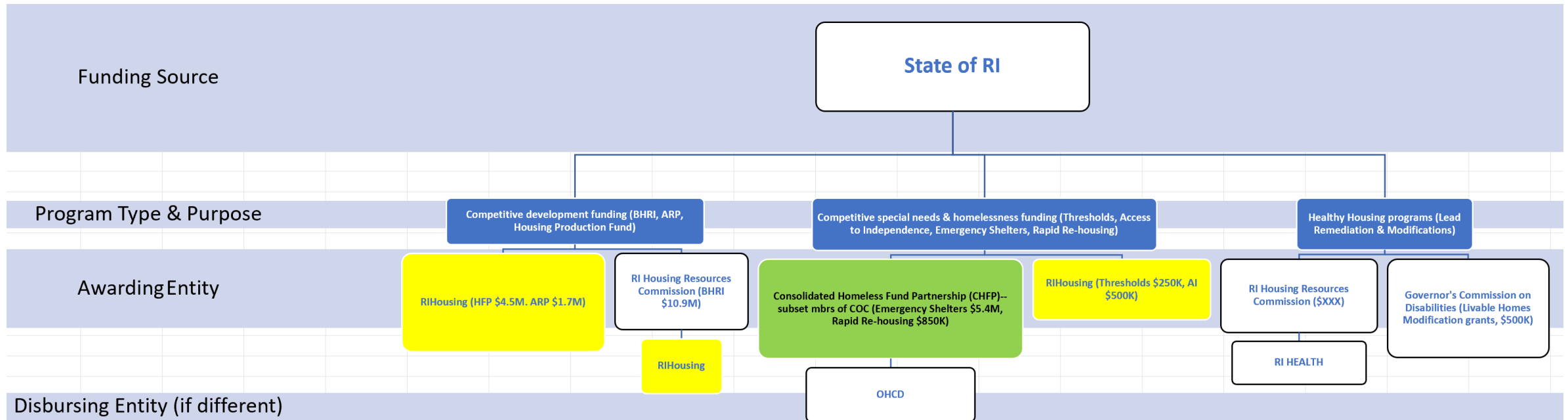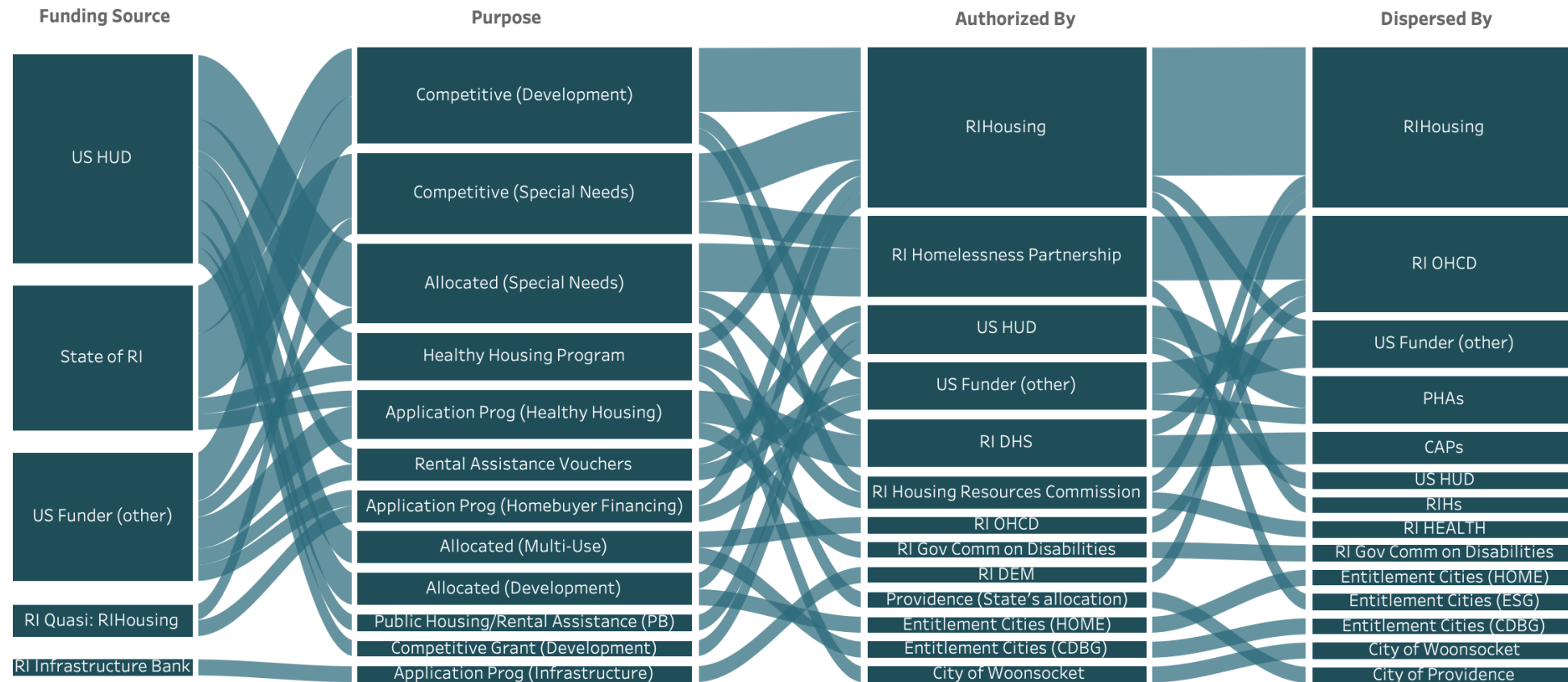➤ Requires variety of charts—don't get to see the whole ecosystem

Working Visualizations: Hierarchical (State of RI)

➢ Traditional visually, but difficult to read

➢ Requires variety of charts—don't get to see the whole ecosystem

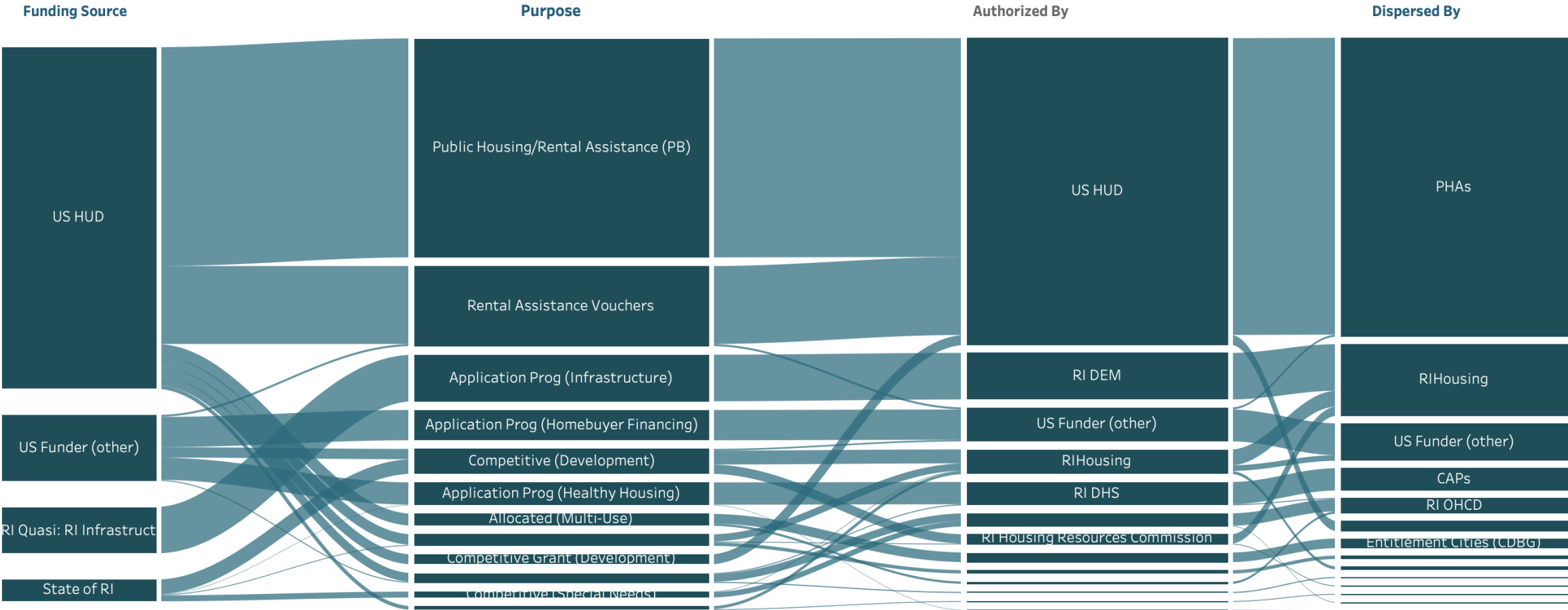# Working Visualizations: Tableau (Distributional)

State Housing Ecosystem (Distribution Paths)

➤ Entire ecosystem ➤ "Live" interaction allows for additional information

Working Visualizations: Tableau (Relative Funding.v1)

State Housing Ecosystem (Relative Funding, w/o RIH)

Funding Source — **Purpose** — **Authorized By** — **Dispersed By**

- US HUD
- US Funder (other)
- RI Quasi: RI Infrastruct
- State of RI

- Public Housing/Rental Assistance (PB)
- Rental Assistance Vouchers
- Application Prog (Infrastructure)
- Application Prog (Homebuyer Financing)
- Competitive (Development)
- Application Prog (Healthy Housing)
- Allocated (Multi-Use)
- Competitive Grant (Development)
- Competitive (Special Needs)

- US HUD
- RI DEM
- US Funder (other)
- RIHousing
- RI DHS
- RI Housing Resources Commission

- PHAs
- RIHousing
- US Funder (other)
- CAPs
- RI OHCD
- Entitlement Cities (CDBG)

➤ Entire ecosystem ➤ "Live" interaction allows for additional information

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Working Visualizations: Tableau (Relative Funding.v2)
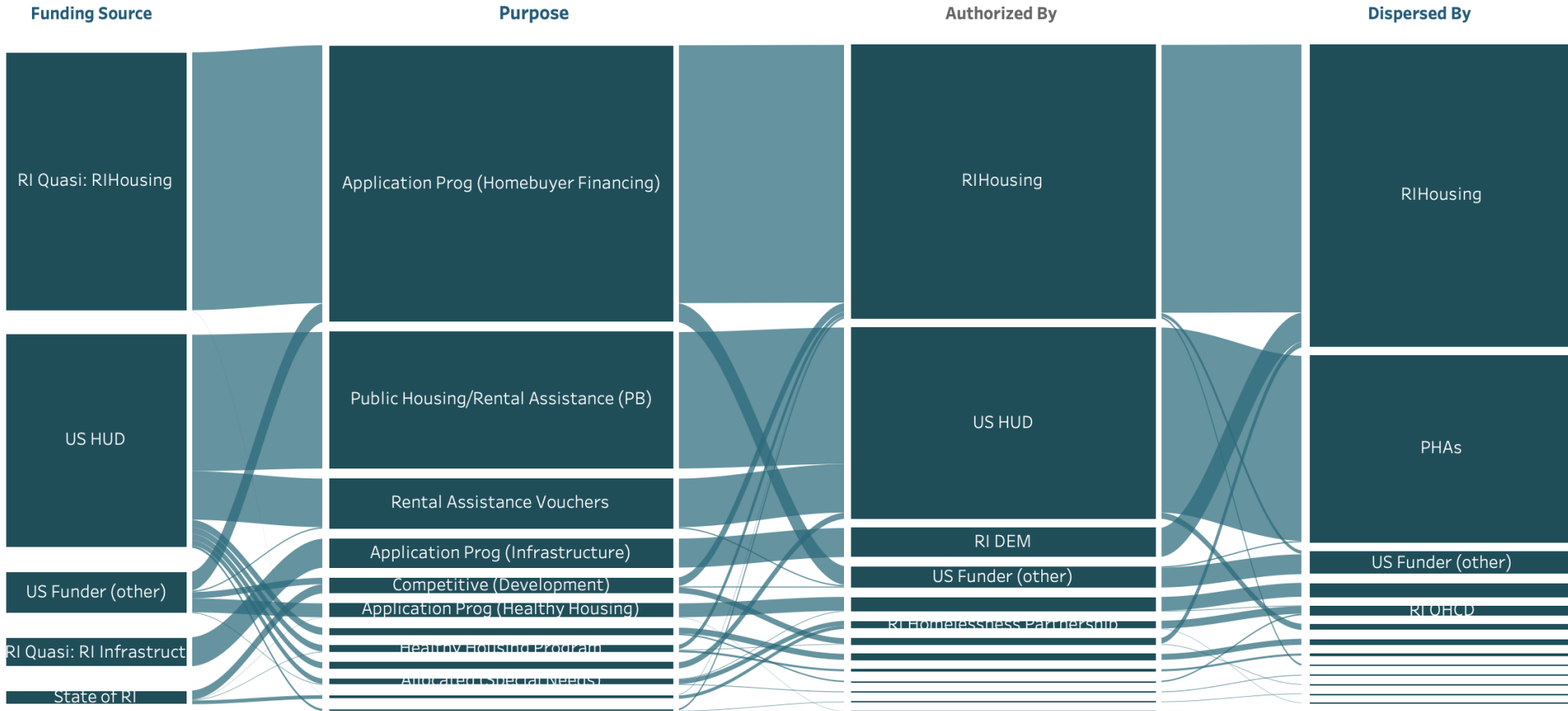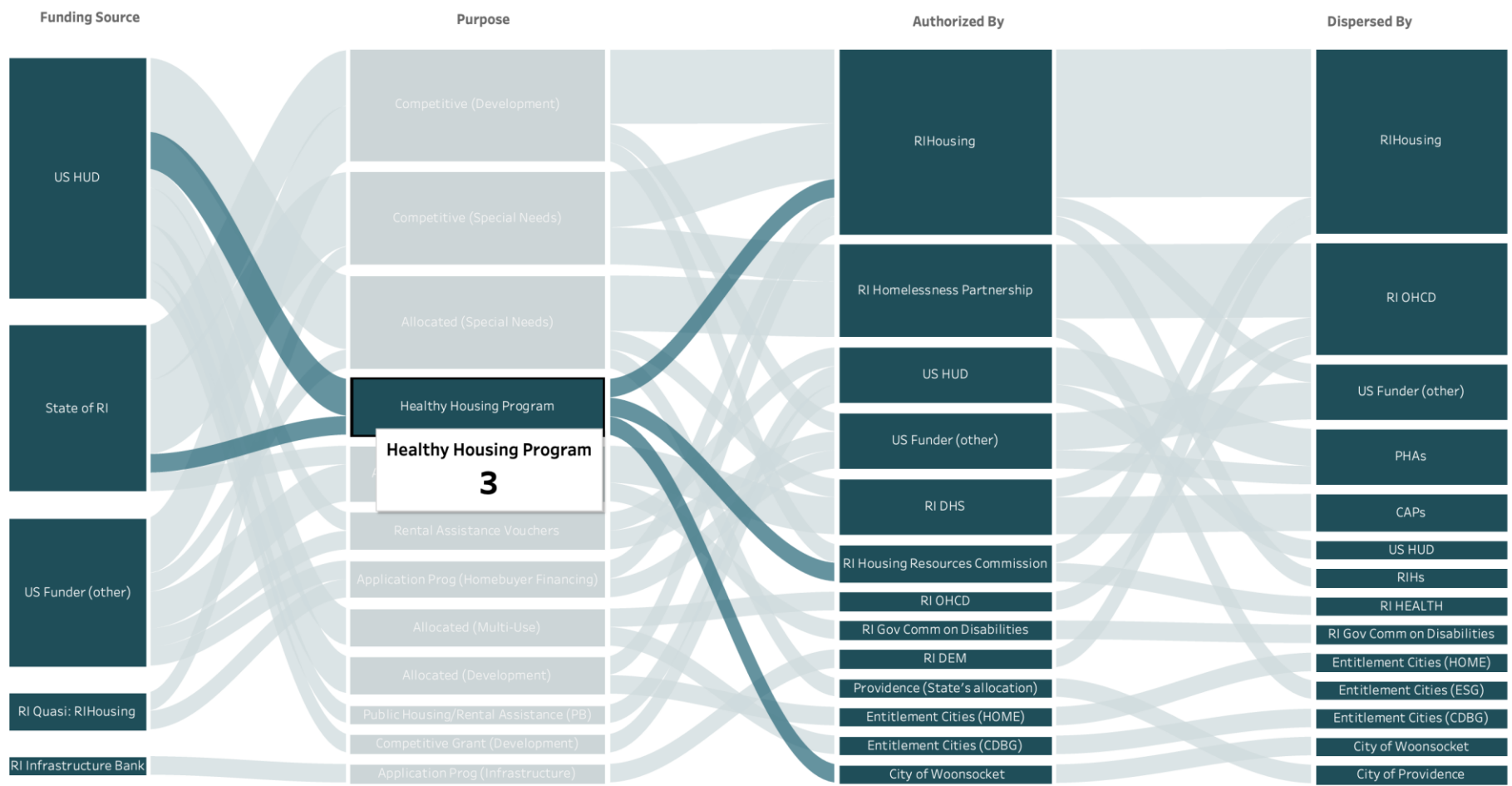

State Housing Ecosystem (Relative Funding)

➢ Entire ecosystem ➢ "Live" interaction allows for additional information

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Working Visualizations: Tableau ("Live" Screen Shot)

State Housing Ecosystem (Distribution Paths)

Thank You

Want to discuss further?
Contact: abourne@rwu.edu