Getting Stuff Done

Through the Noise:

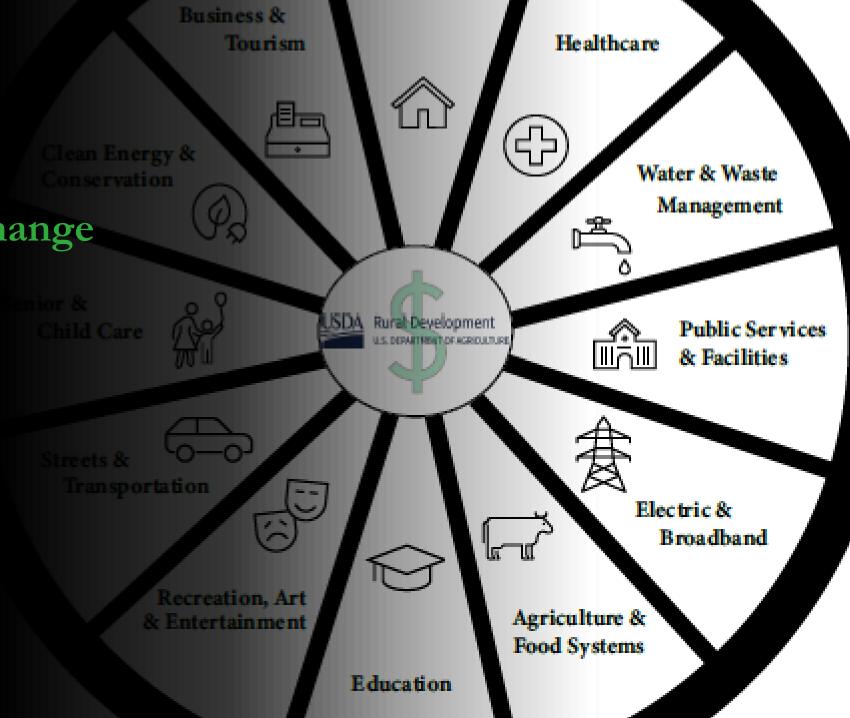
Complex Systems Change

**Building Better By Design 2023:** 

Mission to No Emissions

April 5, 2023





Renewable energy generation

Food security

Increase electric mobility

> Real Net-Zero Building

Curb deforestation

Land use planning

Plant-rich diets

Regenerative Agriculture

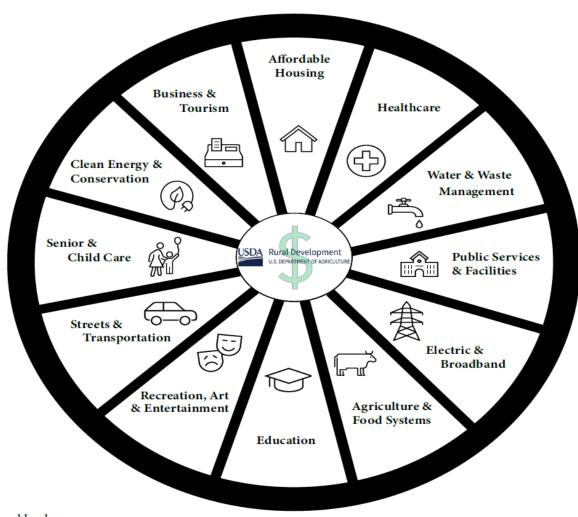
Manage population growth



Helping Rural Communities Stay in Motion

Committed to helping improve the economy and quality of life in rural America

With more than
50 loan, grant and
loan guarantee
programs to
stimulate economic
development, USDA
RD funding supports
and benefits every
aspect of a rural
community's health,
safety and vitality



USDA is an equal opportunity provider, employer and lender.

# Challenge – Opportunity?



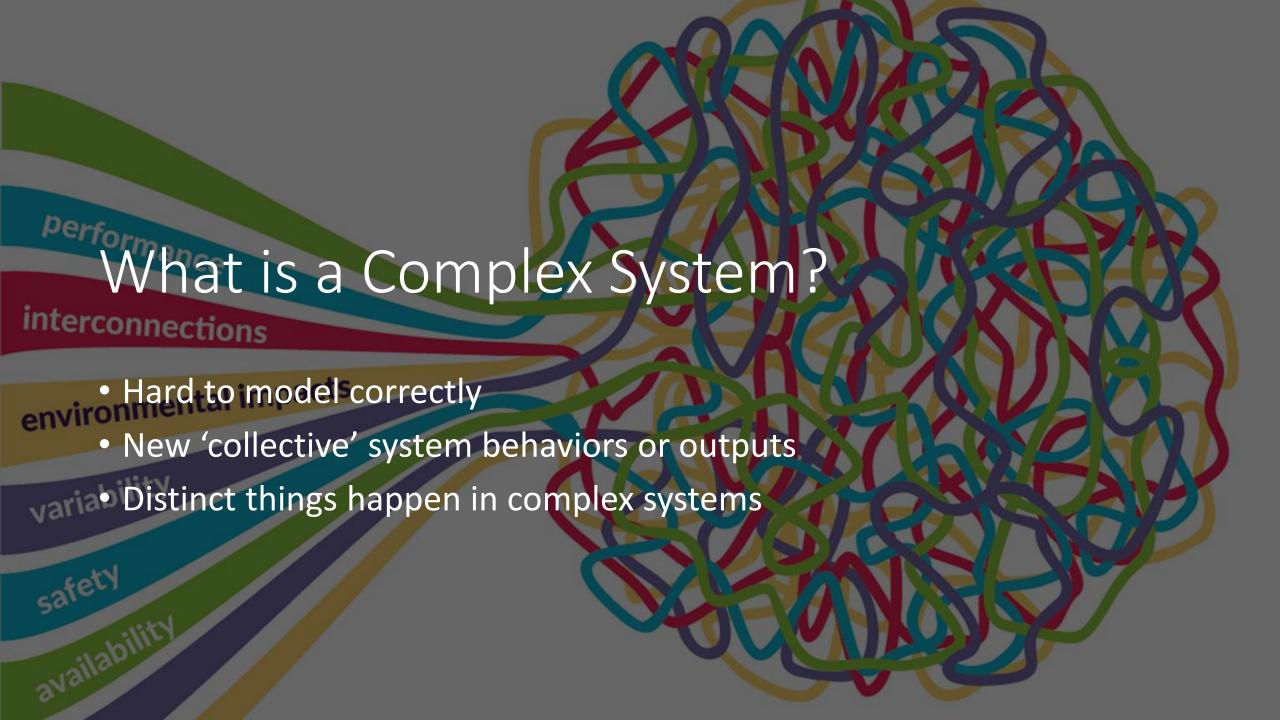
## Underlying data: Need for primary homes by 2030 (pandemic-era household growth)

Total	Owner	Rental	New homes needed 2024-2029
23,686	17,054	6,632	Additional households expected*
2,780		2,780	Needed to house homeless (2022 PIT)
2,596	1,869	727	Needed to replace homes lost
11,023	9,099	1,923	Needed to achieve a healthy vacancy rate**
40,084	28,022	12,062	Total new homes needed
		6.1	

Assumptions: Assumes that the average rate of household growth that occurred between 2019 and 2021 continues (i.e. 1.4% per year), that 5% is a healthy vacancy rate, and that the 0.15% of the housing stock is lost to decay and other conversions each year.







## Complex System Characteristics









### VERMONT'S FOOD SYST



# Local Food System Revitalization

#### Challenge

- Dairy prices
- Economic crisis
- Local food surge

#### **Authority and Funding**

- 2009 Farm to Plate Investment Fund
- 2012 Working Lands Investment Fund

#### Collective Impact

- Backbone Organization VSJF
- 10 yr plan with common goals
- Tracking metrics across the system



# Resident Owned Communities

#### Challenge

- Extreme vulnerability, flood risk
- High energy burden
- At risk for predatory MHC owners

#### **Authority and Governance**

- Vermont and New Hampshire resident purchase option
- Cooperatively owned and managed business

#### Climate Impact

- ROC NH, ROC USA, CDI
- Governance, tech/financial/managerial skills
- Investment in water, sewer, solar
- Housing stability and affordability for residents



## Social Change Philanthropy

#### Challenge

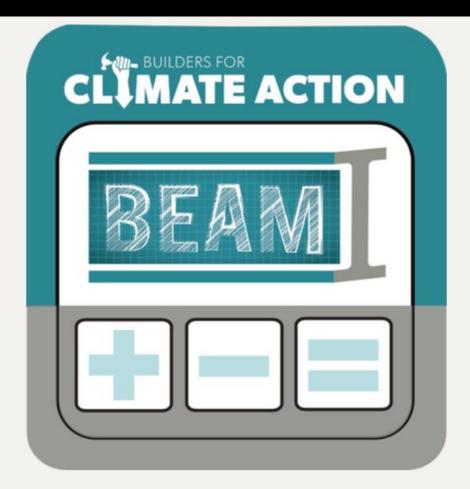
- Billions of dollars
- Small number of decision makers
- Projects funded, but root causes not solved

#### Change in the Power Dynamic

- Diverse leadership
- People impacted become decision makers
- Fewer grants made to institutions, more 'grassroots'
- Unrestricted, pro-active and transparent processes

#### Shift in Leadership

Resource Generation example



BUILDING EMISSIONS
ACCOUNTING FOR MATERIALS

## **Emissions of Materials Benchmark Assessment**

for Residential Construction













### Getting it Done...

- Projects emerge and projects close
- Cross pollination and shared learning
- Collaborative Leadership and consensus based decision making
- Complex reciprocity moving from transactional to relational

## Thank you!

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