

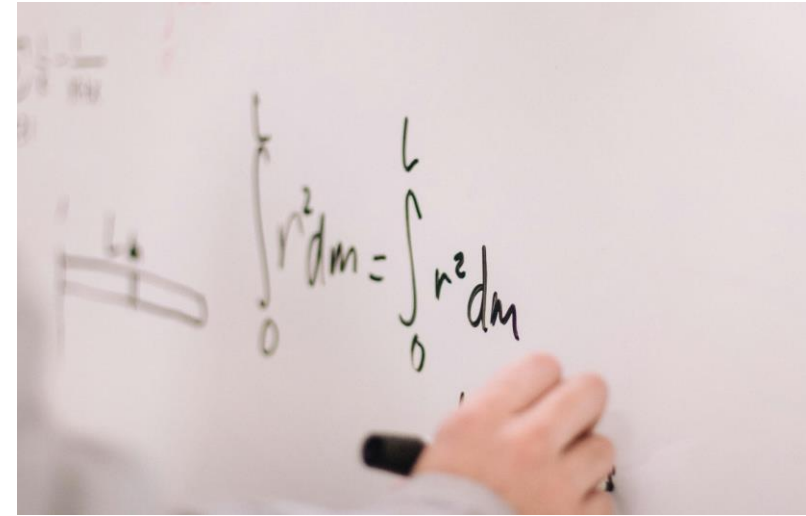
Using the economics of food to reach all students in the age of disengagement

Amelia B. Finaret

Invited Paper Session

Food Economics: Reaching new audiences in public health, climate resilience, and development

Our students face many challenges, old and new



Images (clockwise from upper left): [Thirdman](#), [Photo by Pixabay](#), [Jeswin Thomas](#), [JÉSHOOTS](#), [Julita](#), [Mohamed Hassan](#)

Students care a lot about the food system, and come from many different disciplinary backgrounds



Image source: [Photo by Andy Barbour](#) via Pexels



Image source: Photo by [Markus Spiske](#) on [Unsplash](#)

Food economics courses that address social problems attract students from everywhere

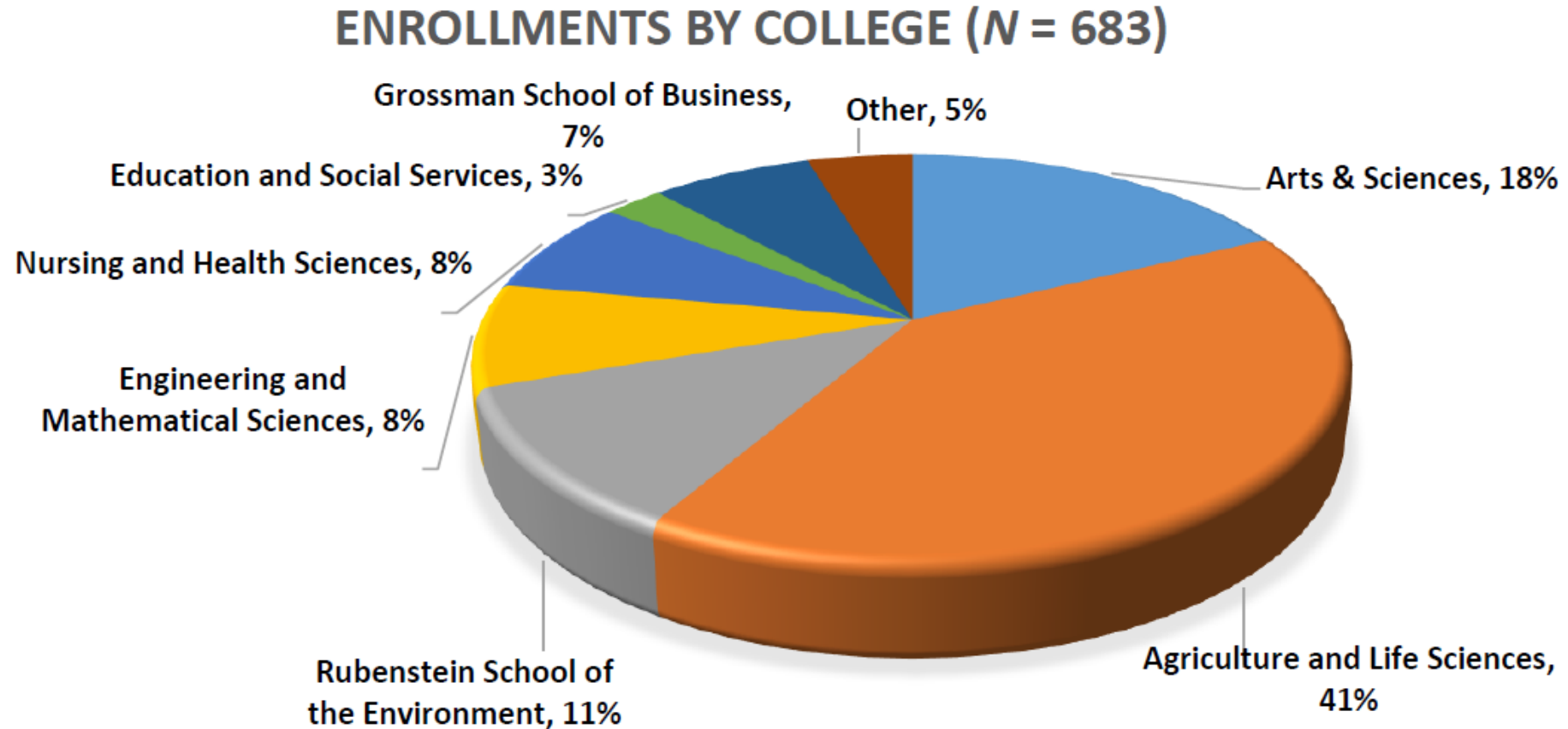
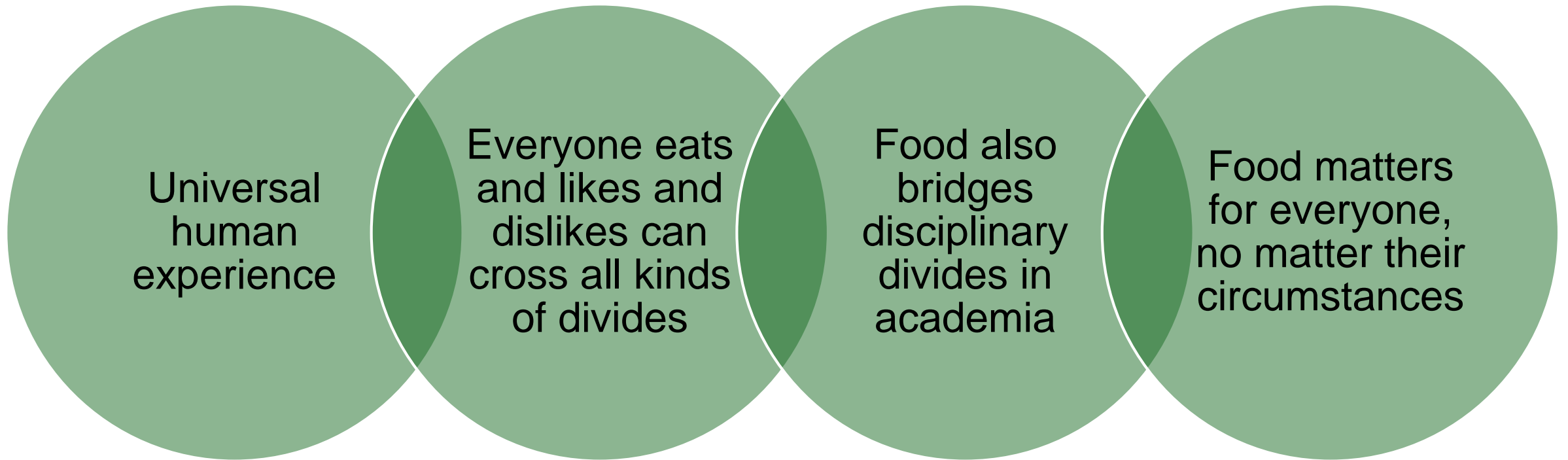


Figure Source: Figure 5, about *U.S. Food, Social Equity, and Development*, a course at UVM. In: Kolodinsky, J. and Tobin, D., 2021. Teaching about Diversity and Racism in Food Systems: An Example for Agricultural Economics and Related Departments. *Applied Economics Teaching Resources (AETR)*, 2(6), pp.14-24.

Food connects people



Shared interest in food creates space where differences fade, allowing people to connect

Dorfman et al. (2024) argue that agricultural and applied economics is key for solving global problems

- “Agricultural and applied economics has a mission to **solve problems**, current and future...”
- **Interdisciplinary collaboration** has always been important, especially with the natural sciences.
- The field added several areas: **enviro, health, development, labor**, etc.
- The mission of ag econ is **problem solving, future-oriented, and interdisciplinary** compared with economics departments.

Students are interested in these things, but they often don't know that economics does this!

Source: Dorfman, Jeffrey H., Scott H. Irwin, Munisamy Gopinath, and David Zilberman. "The future of agricultural and applied economics departments." *Applied Economic Perspectives and Policy* (2024).

Higher Ed is seeing increased specialization at the program level, even as schools shrink and close

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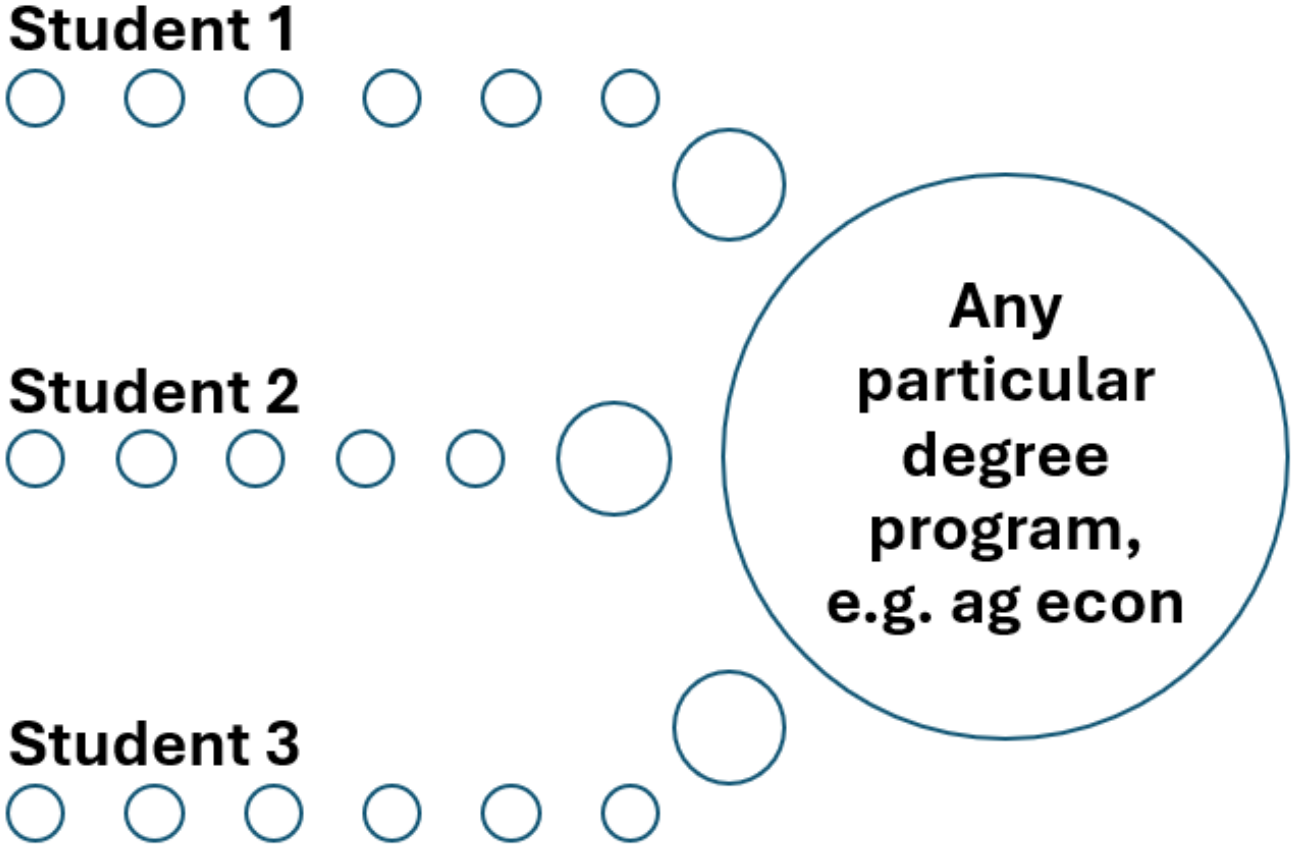
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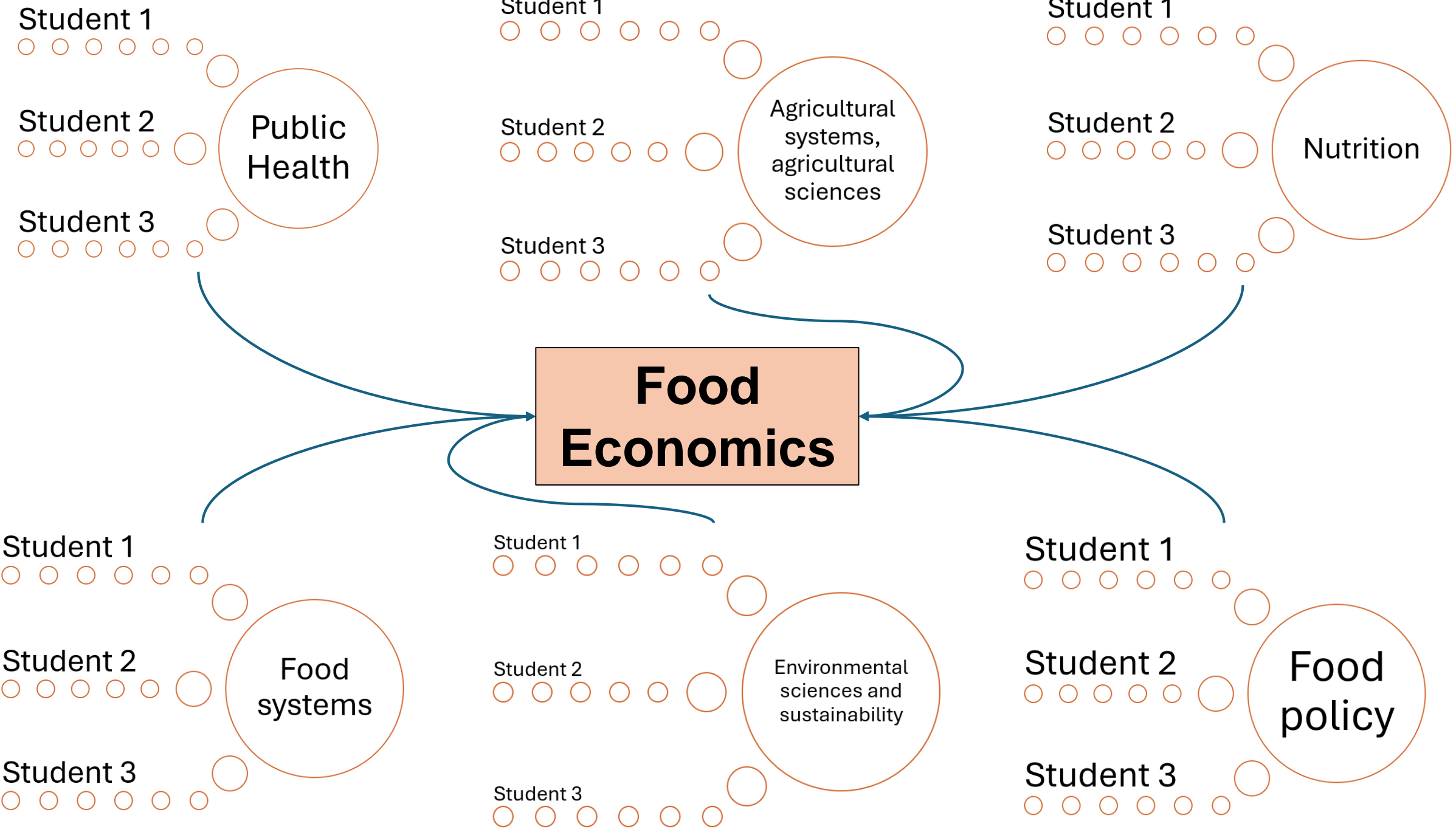


Is Higher Ed Growing or Shrinking?

College closures make headlines, but nearly 23,000 new academic programs have been added over the past two decades.

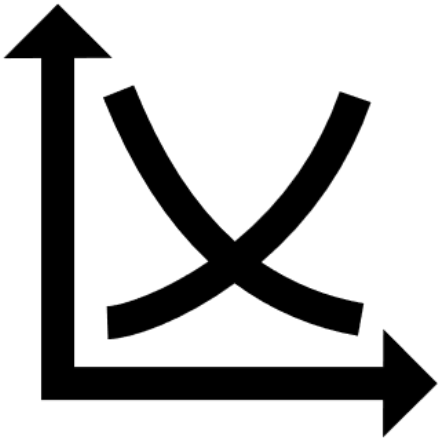
Any given program may have new or continued challenges recruiting new students





Goals for food economics education

- Use economic models to explain and predict outcomes
- Obtain, use, and explain data on food, agriculture, and nutrition
- Bridge cultural and disciplinary divides
- Prepare students for wide-ranging careers in the food system



News analysis assignments– flexible & good practice

- Find news reports that describe changes to production, consumption, policy, trade, or technology.
- Draw analytical diagrams to represent what is described in the article.
- Explain what you drew.
- Not particularly conducive (yet?) to the use of AI tools



FDA increases controls on imported seafood, cantaloupe and canned foods

By News Desk on May 30, 2024

Students are invested and interested in big food news stories around the world

BUSINESS

Grocery price inflation concerns: How small manufacturers are trying to keep food costs down

By [J.R. Stone](#)

Thursday, May 30, 2024 8:42AM



ABC7 talked with a family-owned organic company trying to keep food prices low.

The UN says there's 'full-blown famine' in northern Gaza. What does that mean?



1 of 2 | FILE - Palestinians line up to receive meals at Jabaliya refugee camp in the Gaza Strip, March 18, 2024. The head of the United Nations World Food Program says northern Gaza has entered "full-blown famine" after nearly seven months of war between Israel and Hamas. But a formal — [an](#) Read More

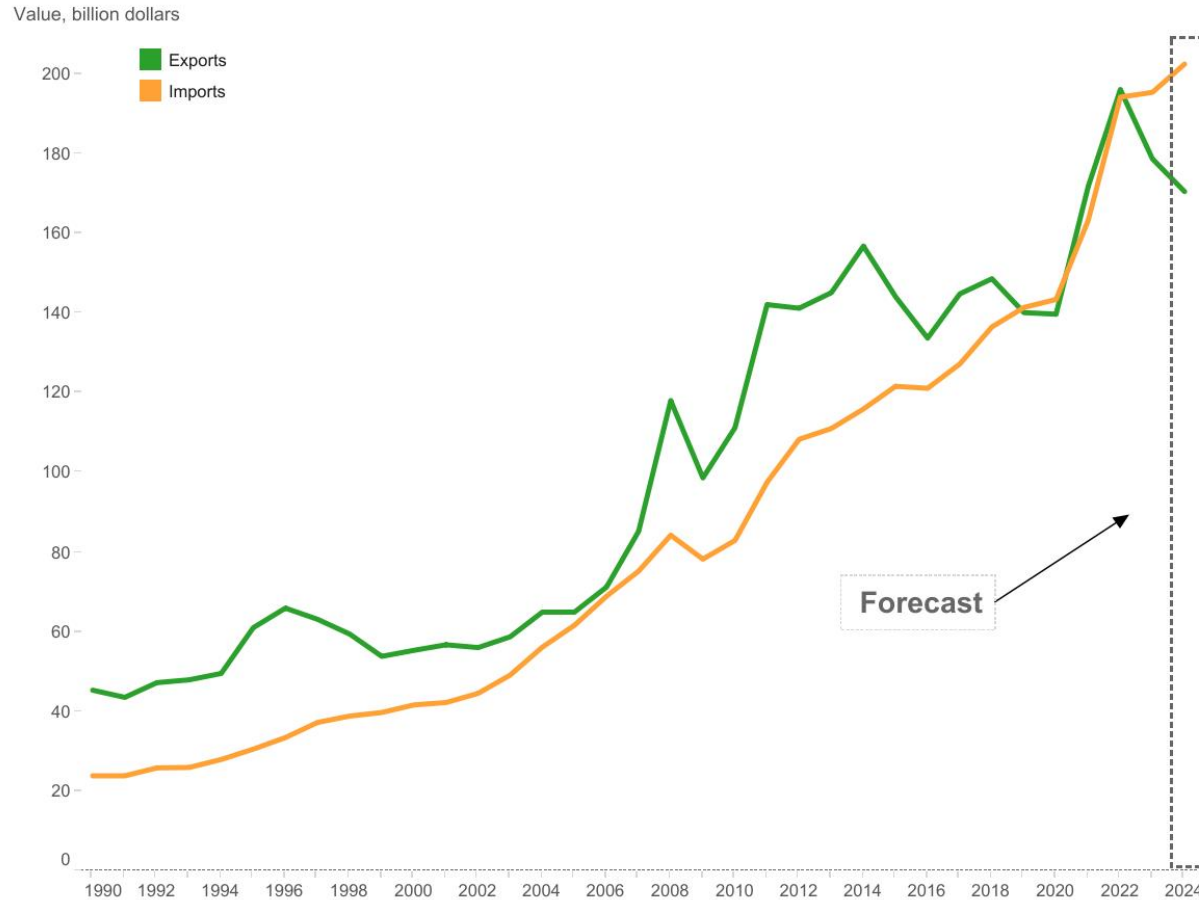
BY [SAM MEDNICK](#) AND [ELLEN KNICKMEYER](#)

Updated 1:01 PM EDT, May 6, 2024

Share

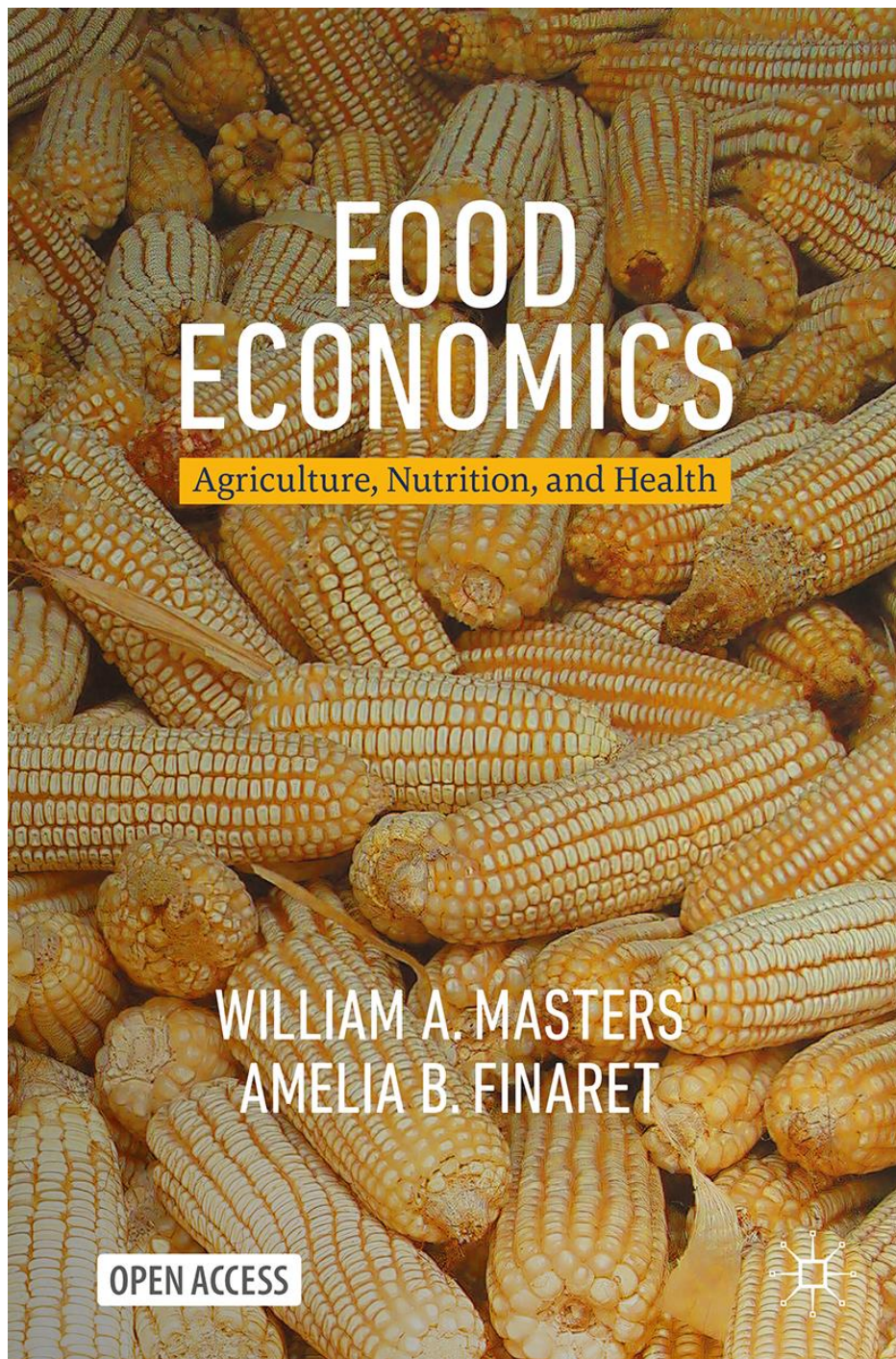
Data visualization assignments – flexible and good practice

U.S. agricultural trade



Source: USDA, Economic Research Service and USDA, Foreign Agricultural Service analysis and forecasts using data from U.S. Department of Commerce, Bureau of the Census.

- Provide link to data source, explanation for accessing data
- Depending on skill level for class, may need to keep to Excel or CSV formats of data
- Chart key data for the food economy on availability, consumption, prices, health.
- Describe the data and what the chart shows clearly and accurately.
- Not particularly conducive (again, yet?) to AI tools



A new, open access textbook

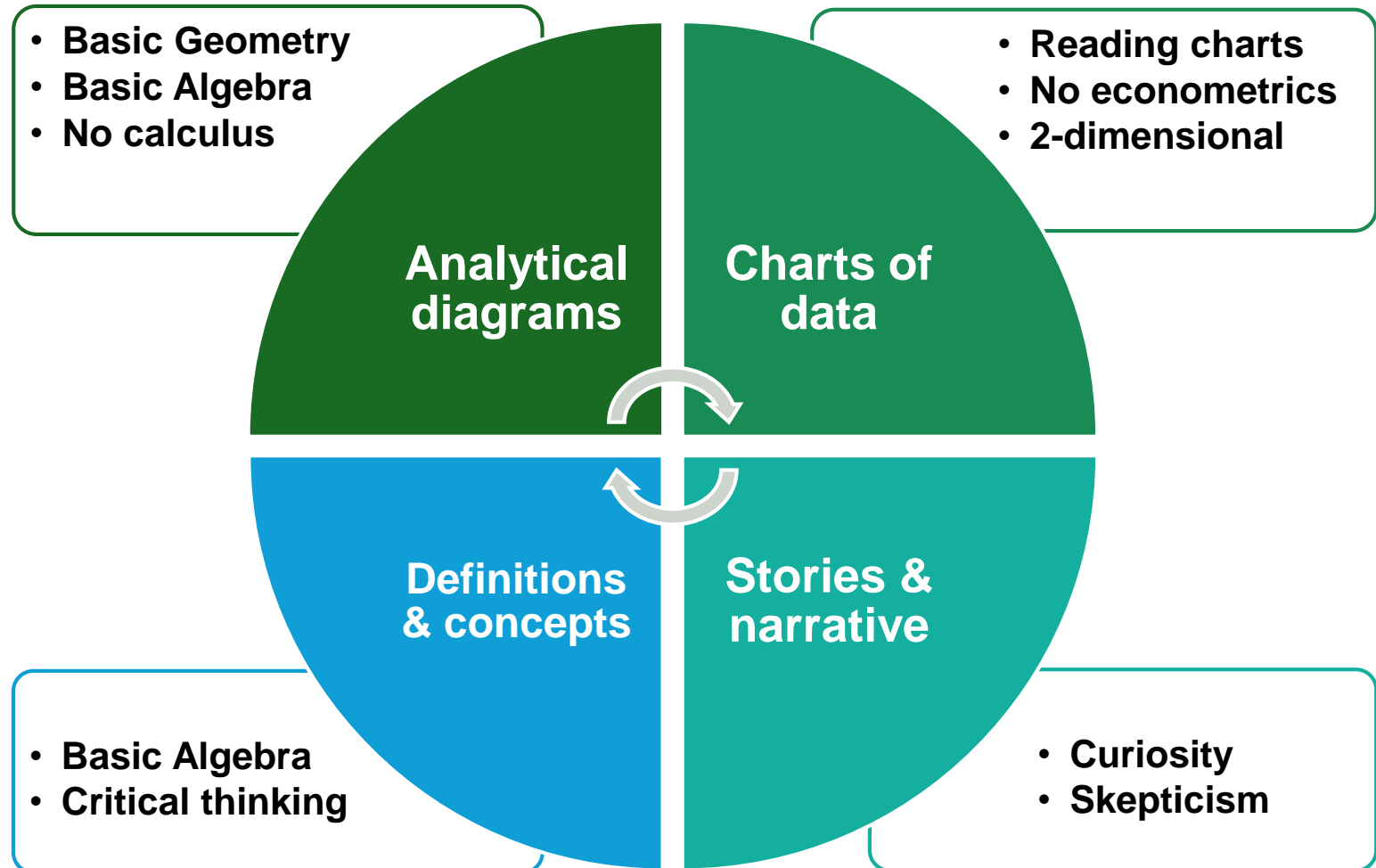
- Published in Summer of 2024 by Palgrave-Macmillan
- Open access from the *Agriculture, Nutrition, and Health Academy*



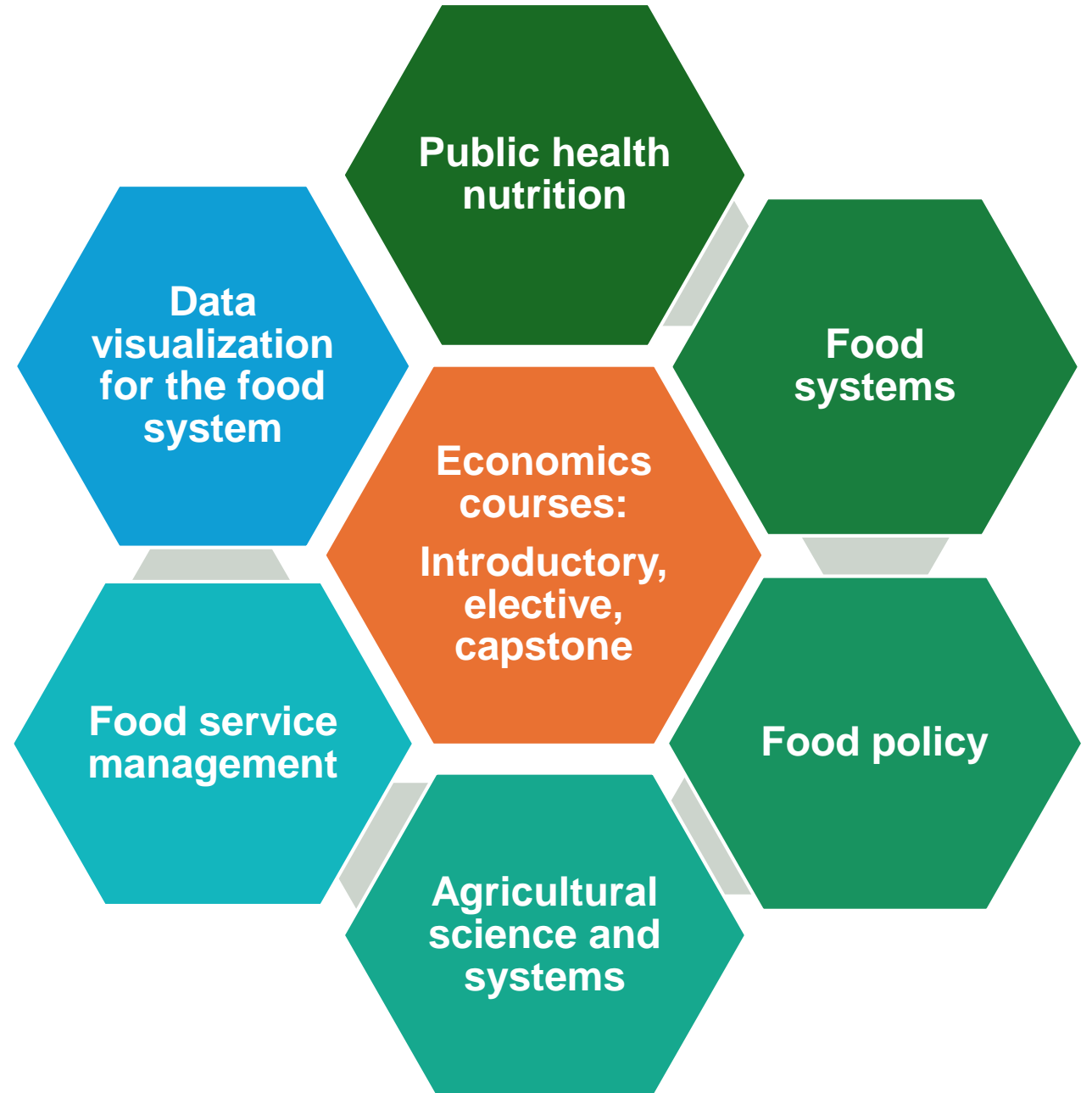
Textbook structure

- **12 Chapters, each split into two sections**
- Analytical diagrams to teach economic principles
- Data visualizations to show observation of stylized facts
- Instructors can pick-and-choose which chapters are useful for their courses

Chapter content and pre-requisite skills



**Types of courses
or programs that
could use all,
parts, or sections
of the book**



Chapters at-a-glance

Chapters 1-6

- Introduction
 - Motivating food economics
- Individual Choices
 - Consumption and production theory
- Societal Outcomes
 - Supply, demand, trade, elasticity
- Social Welfare
 - Consumer and producer surplus, externalities
- Market Power
 - Imperfect competition, game theory
- Collective Action
 - Public goods, non-market goals

Chapters 7-12

- Poverty and Risk
 - Measuring poverty, inequity, disparities, safety nets, vulnerability
- Food and Health
 - Behavioral economics, interventions
- Food in the Macroeconomy
 - National income, circular flow, recessions, unemployment, inflation
- International Development
 - Agricultural transformation, dietary transition, urbanization
- From Local to Global
 - International trade, globalization, storage, value chains
- The Future of Food
 - Agribusiness and agroecology, food environments

Introductory/Intermediate Microeconomics

Chapters 1-6

- **Introduction**
 - **Motivating food economics**
- **Individual Choices**
 - **Consumption and production theory**
- **Societal Outcomes**
 - **Supply, demand, trade, elasticity**
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An agribusiness focus

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An agricultural sciences and policy focus

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A public health focus

Chapters 1-6

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A data visualization focus

Chapters 1-6

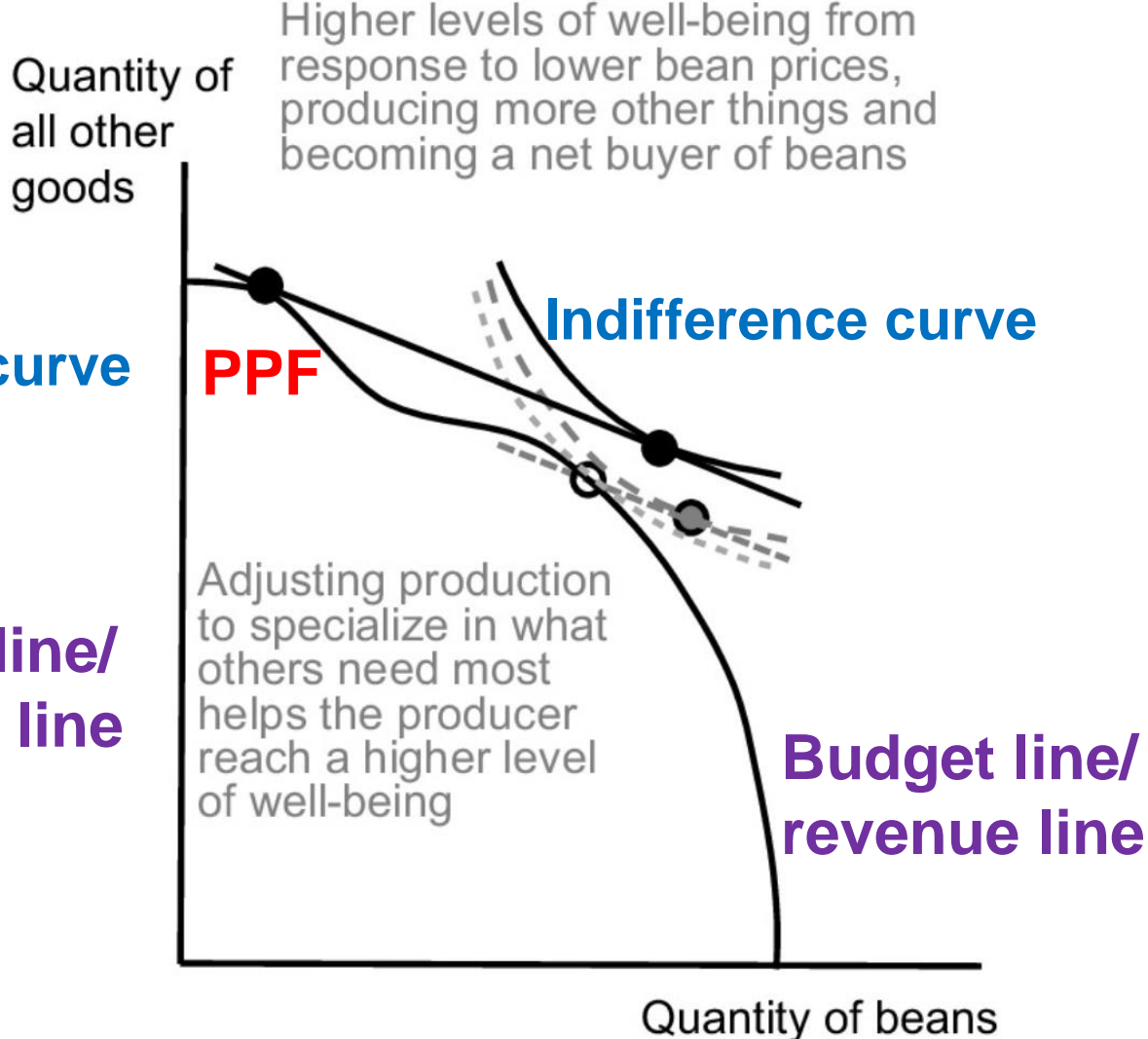
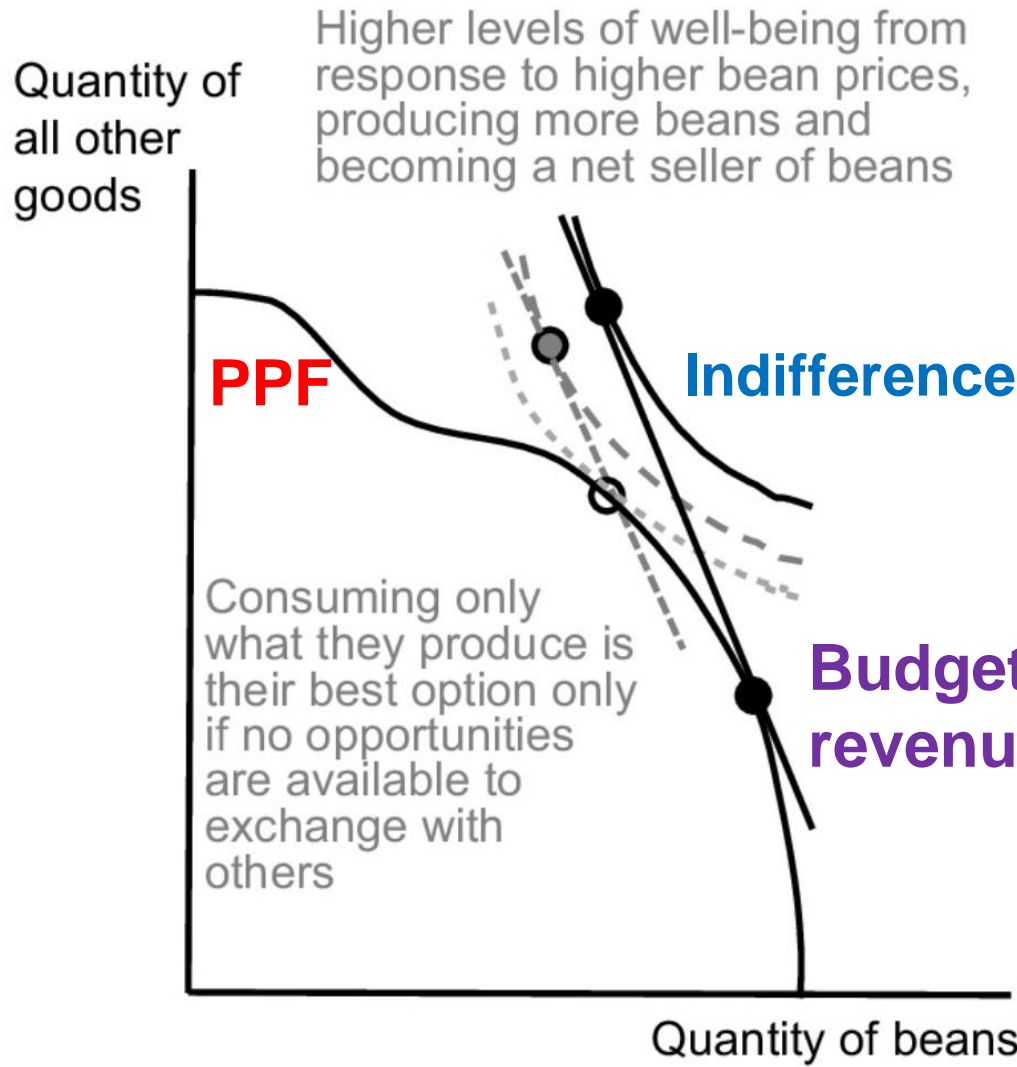
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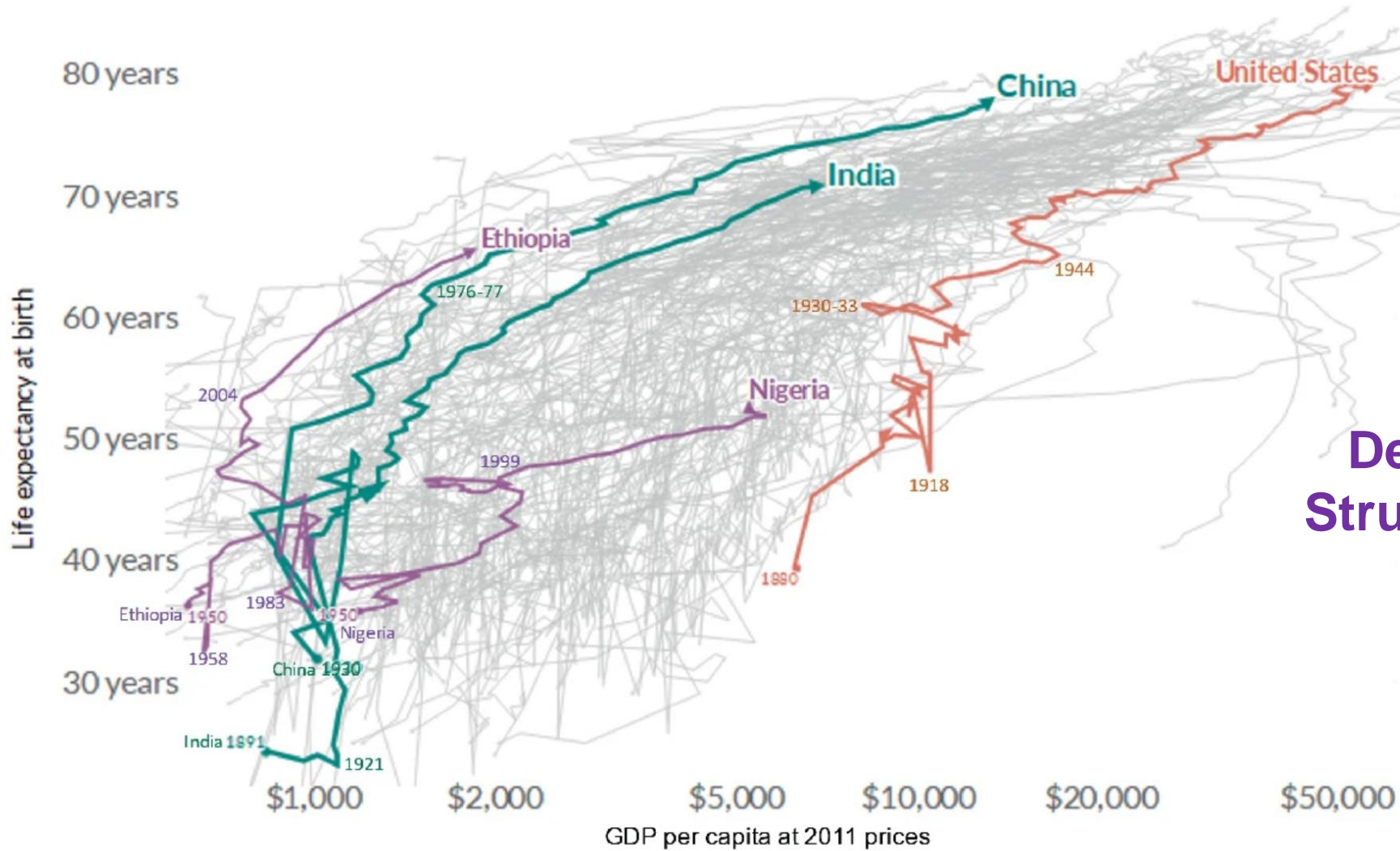
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Example diagrams from Chapter 2 – annotated for clarity

Almost all agricultural households find it attractive to sell or buy some of the products that they produce on the farm



Example chart from Chapter 10 – Preston Curve



Demographic Transition
Structural Transformation
Population Pyramids
Food / Nutrition
Transitions
Urbanization
Preston Curves

Source: Reproduced from Max Roser, Esteban Ortiz-Ospina and Hannah Ritchie [2019], Our World in Data: Life Expectancy, using data from diverse sources. Other countries can be shown by modifying <https://ourworldindata.org/grapher/life-expectancy-vs-gdp-per-capita>



Thank you

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