Group 17

Global Trends in Dietary Components

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Outline

1. Background

2. Global Trends

3. Analysis of Specific Countries

4. Conclusion

1.
Background

- Motivation
- Dataset
- Methodology

Motivation

- What do people eat every day?

- What're the trends over years?

- What's the healthy diet?

Dataset

Food and Agriculture Organization of the United Nations

World Health Organization

- Countries: **217**

- Years: **1961-2013**

- Total Entries: **80,000,000+**

- Visualizations: **Bar, Pie, Radar, Map, Line**

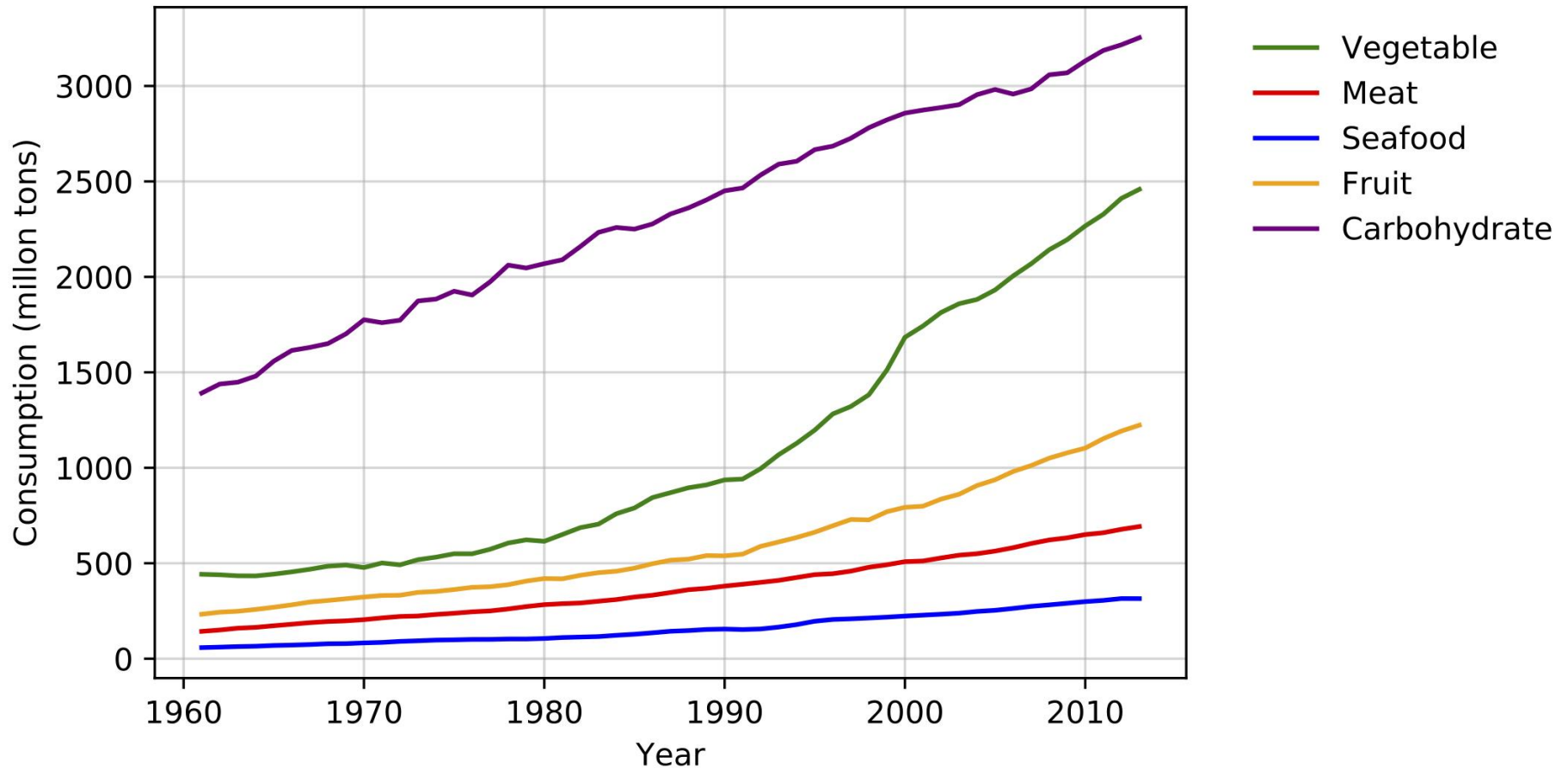- Food Diversity: **Eggs, Meat, Grain, ...**

Methodology

- **Library:** pyecharts, matplotlib, pandas, numpy
- Diet trend based on **Year, Food**
- Diet components of **different countries**
  - China, USA, India, Russia
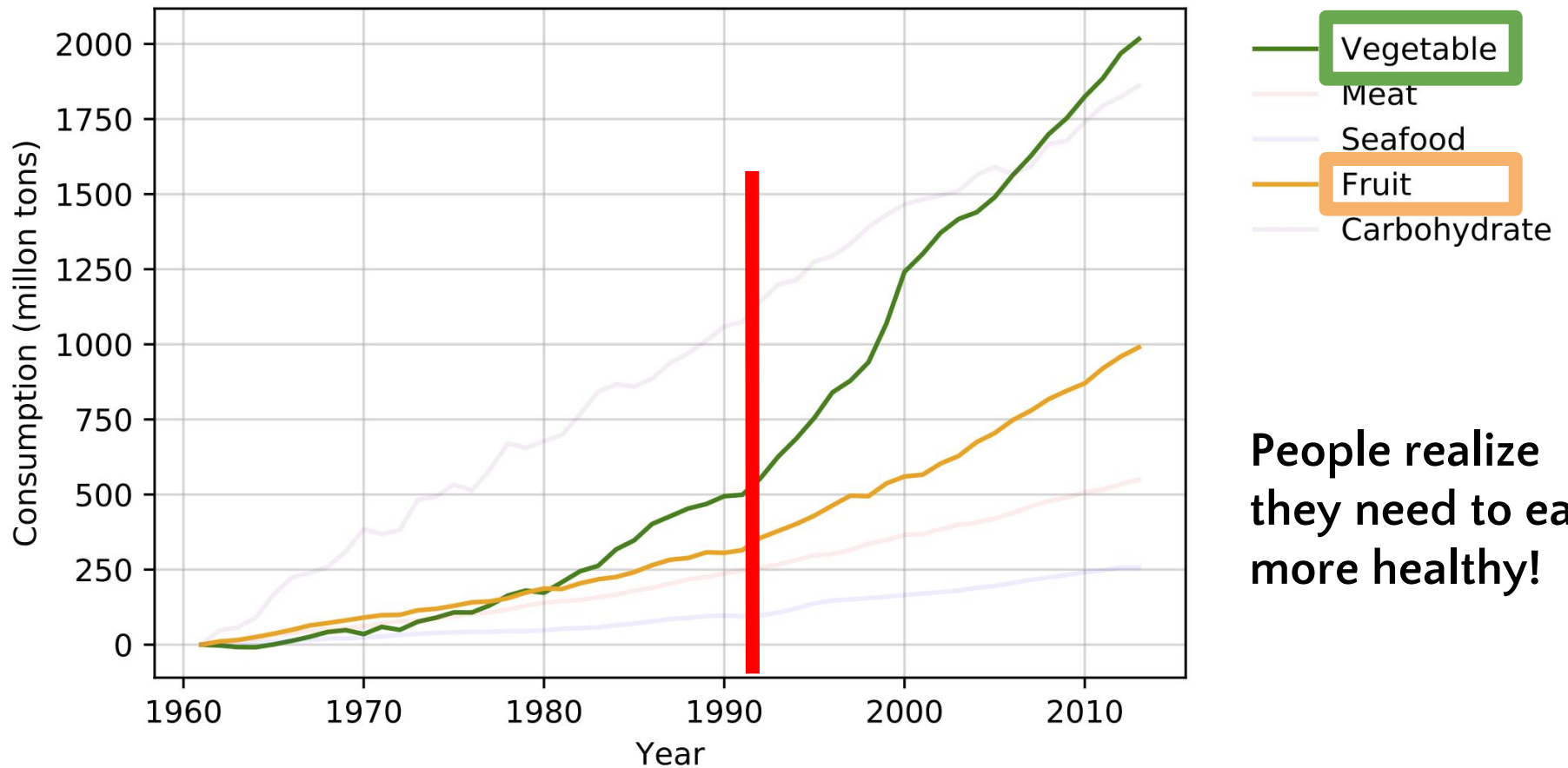- **Nutrition intake vs. Recommended intake**

2.

Global Trends

- Food Consumption
- Daily Energy Supply
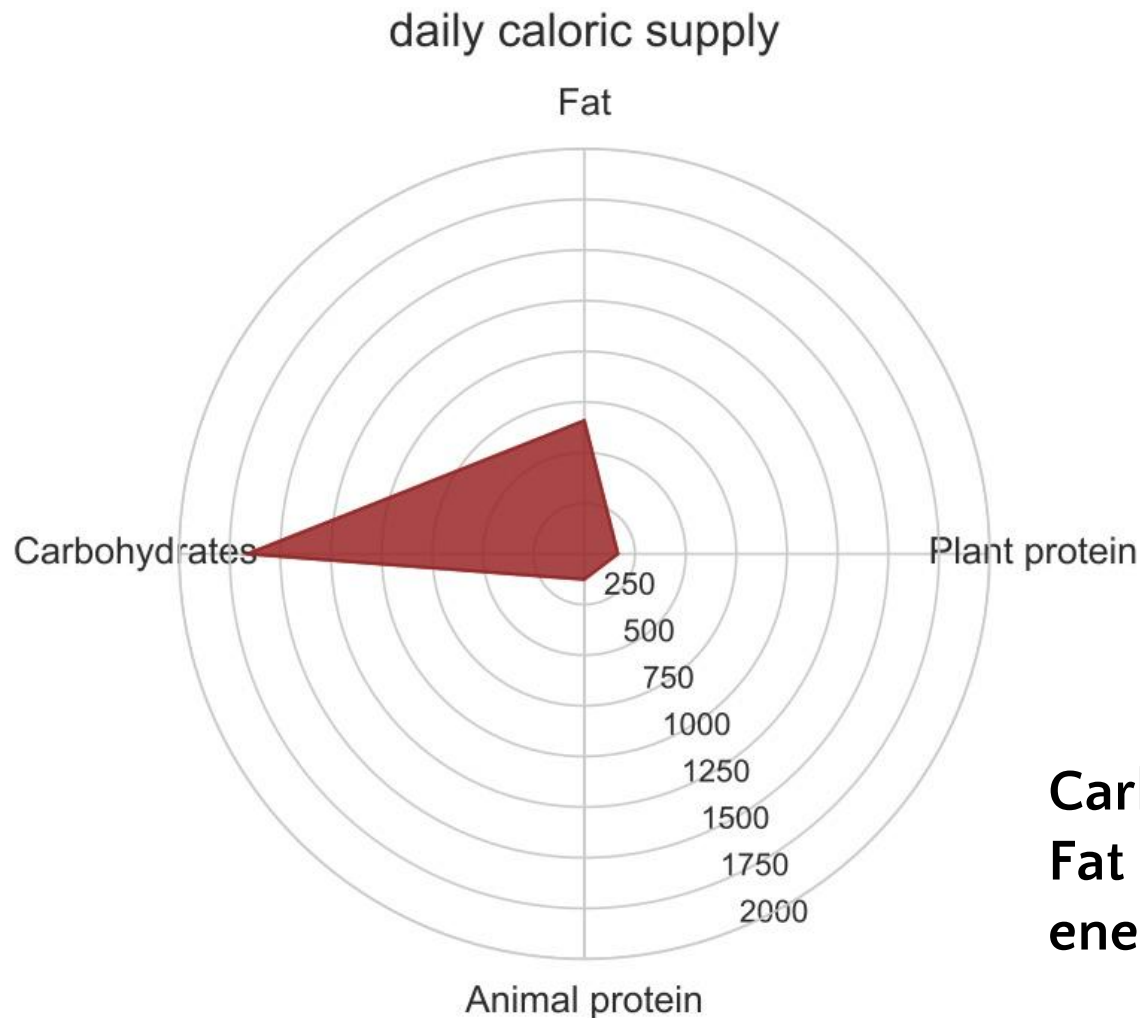- Vegetable Consumption

Global Food Consumption
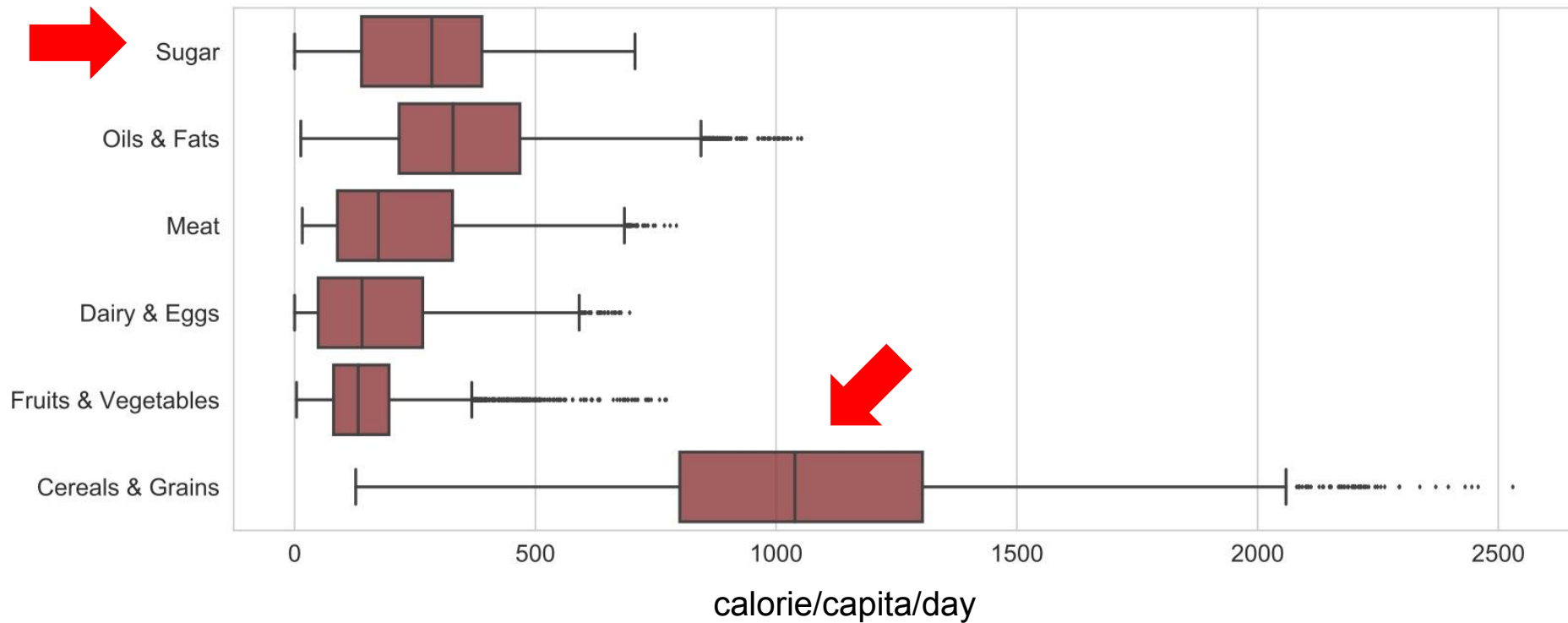
Global Food Consumption (Slope Comparison)

People realize they need to eat more healthy!
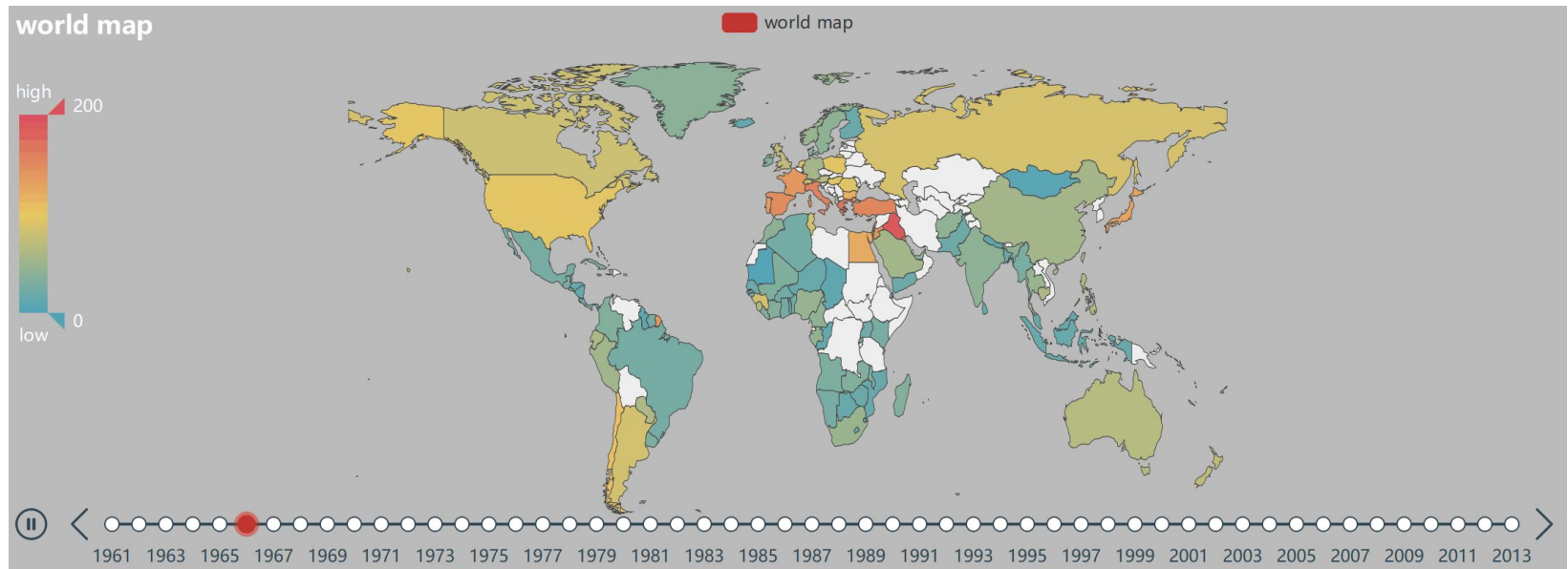
Daily Caloric Supply by Macronutrient

daily caloric supply

Carbohydrates and Fat are primary energy source!

Daily Caloric Supply by Food Categories

calorie/capita/day

Global Trend of Vegetable Consumption

- Units**: kg/capita/yr**
- Total Number of Countries: **217**
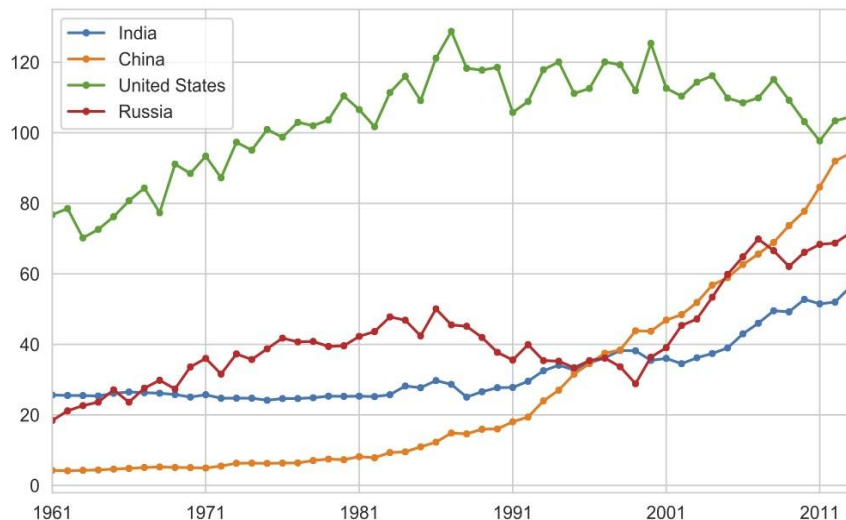- Low: **Blue**   High: **Red**

3.
Specific Countries
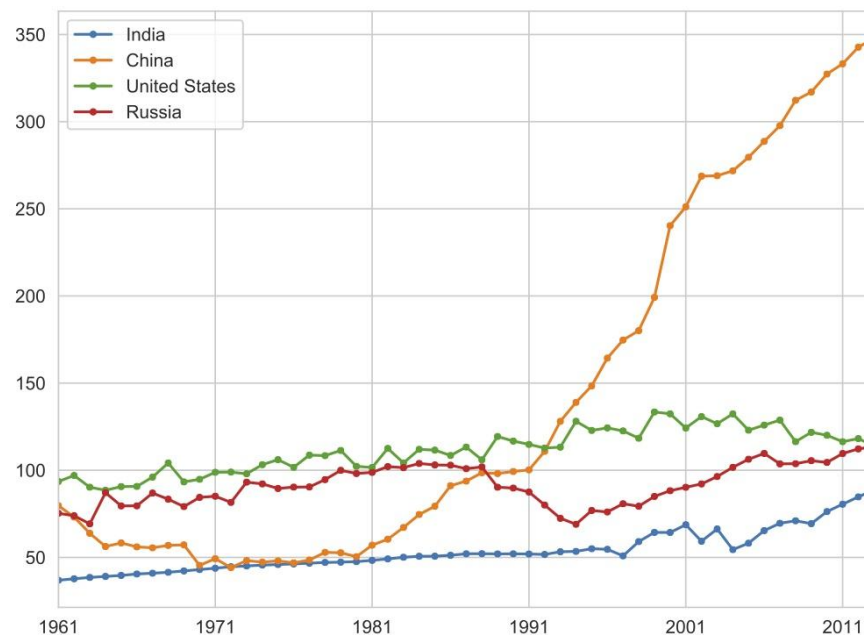
- Food Intake Trend
- Dietary Components
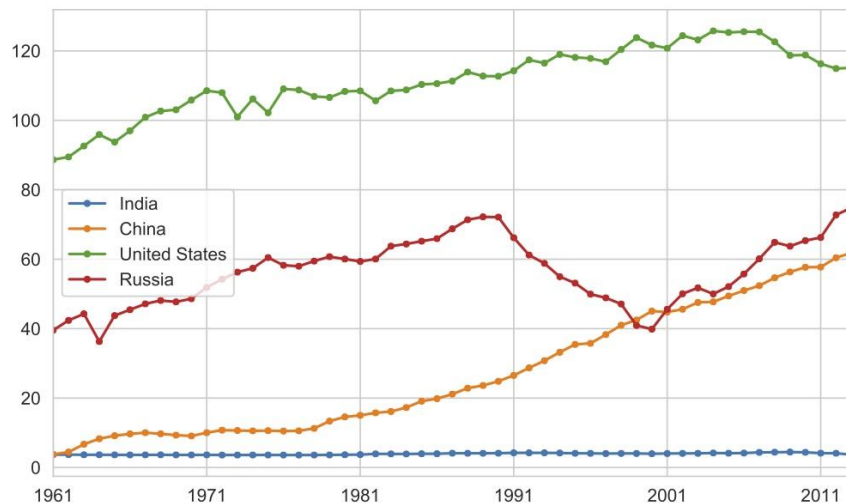- Analysis

Vegetable/Fruit/Meat Intake Trends
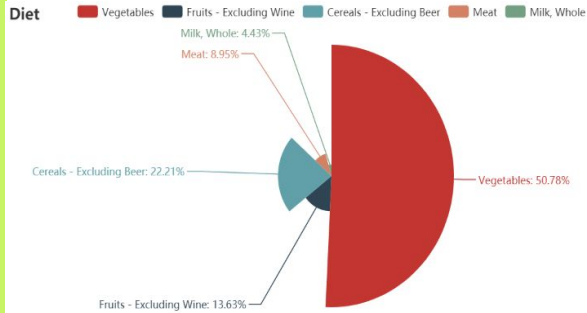
fruit

- Units: **kg/capita/yr**

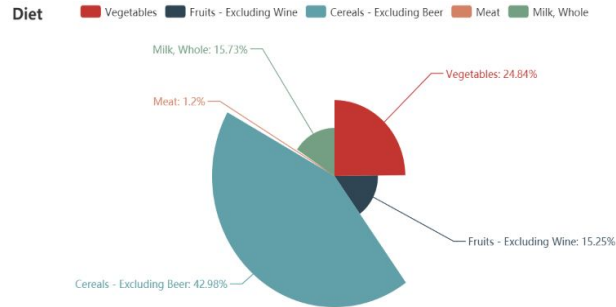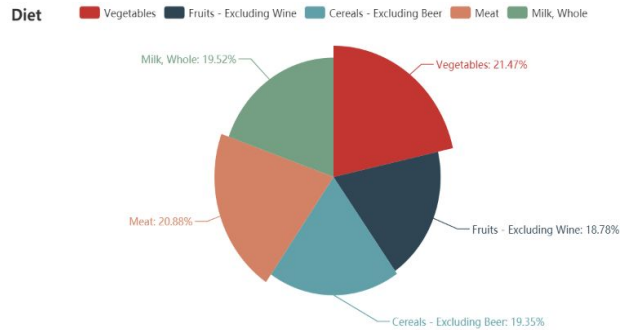**vegetable**

meat

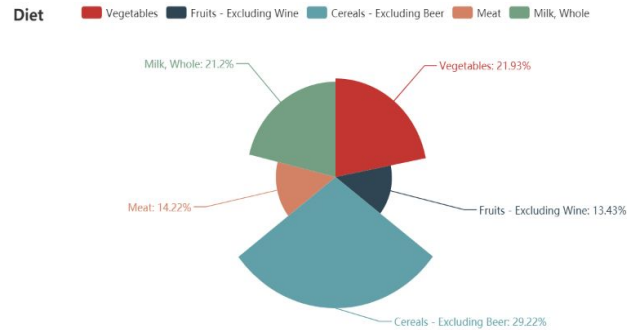# Dietary Components

China

India

USA

Russia

- Units: **Percentage**

- Selected Year: **2013**

- Food Types:
  - **Vegetables**
  - **Fruits**
  - **Meat**
  - **Milk**
  - **Cereals**

Analysis of Dietary Composition

- Low cereals intake in China
- Low vegetables intake in India
- Low vegetables intake in USA
- Excess milk intake in Russia

	China	India	USA	Russia	**Standard**
Meat	8.95%	1.20%	19.52%	14.22%	**7.14%**
Fruits	13.63%	15.25%	18.78%	13.43%	**14.29%**
Vegetables	50.78%	24.84%	21.47%	21.93%	**35.71%**
Milk	4.43%	15.73%	19.52%	21.20%	**7.14%**
Cereals	22.21%	42.98%	19.35%	29.22%	**35.71%**

4.

Conclusion

Conclusion

- **Carbohydrate** is our main energy supply.

- With the rise of the Internet, **eating healthy** is getting more trendy.

- **Religion and economy** affect what people eat.

- **Cultural differences** are evident in diet composition.

Thanks!

Any questions?