

A metrics based approach to transforming the food system





Juan Pablo Cordero
Research Associate
University of York
Yorkshire & Humber Healthier and Resilient Food
Systems Network - April 28th 2022

FixOurFood Metrics Team



Sarah Bridle
WP3 Lead
Professor of Food, Climate
and Society



Angelina Frankowska
Food life cycle assessment
expert
Research Associate on
FixOurFood



Andrew Markwick
Data scientist
New Mills Computer Ltd



Juan Pablo Cordero
Data scientist
Research Associate on
FixOurFood

+ Input from the whole FixOurFood Team and Stakeholders

Guiding transformations towards regenerative FS

- 1. What is needed for a regenerative FS?
- 2. How can this be realised?

Use Yorkshire FS as a testbed

- Diverse components of food production, supply and consumption
- High concentration of food and drink businesses in the UK

12 local education authorities







































YHPHN Yorkshire and Humber Public Health Network





















SUSTAINABLE FISH CITIES



Leeds Food Aid Network

4 district councils in South Yorkshire











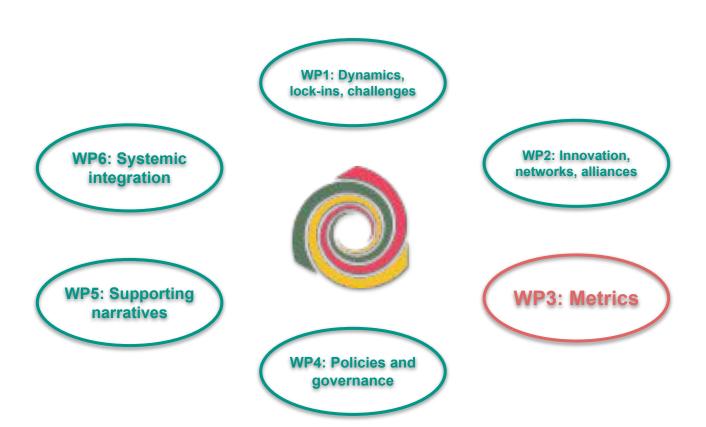


Shifting trajectories towards regenerative sub-systems

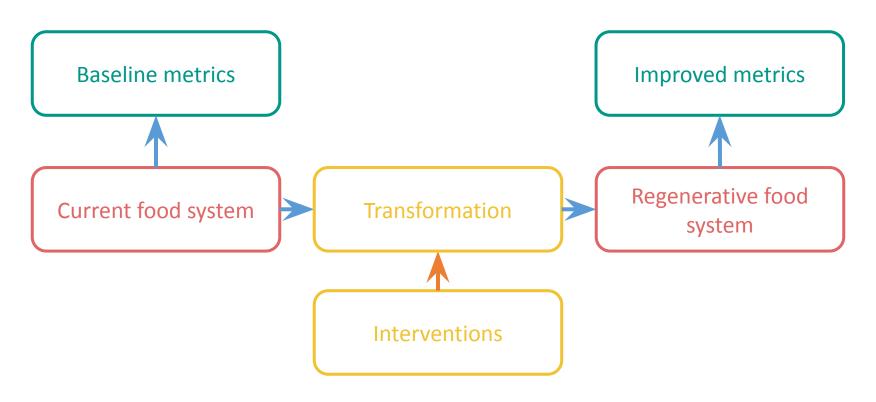




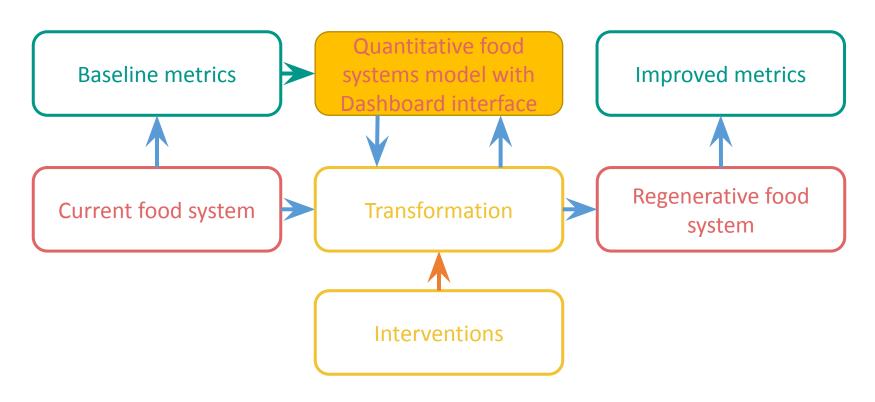




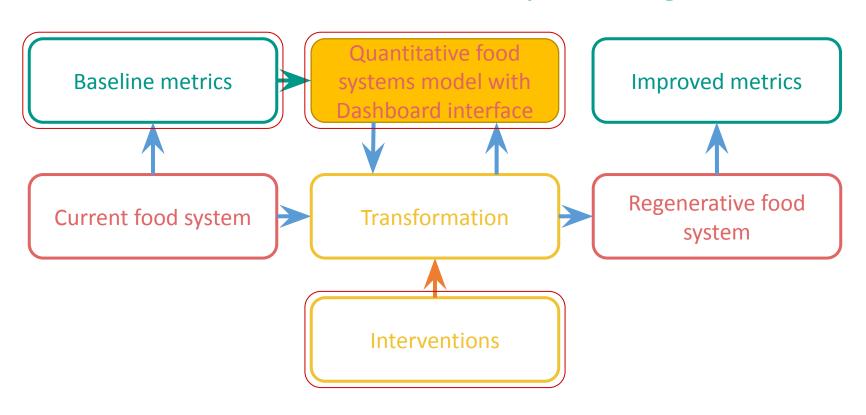
Traditional theory of change



Metrics driven theory of change



Metrics driven theory of change

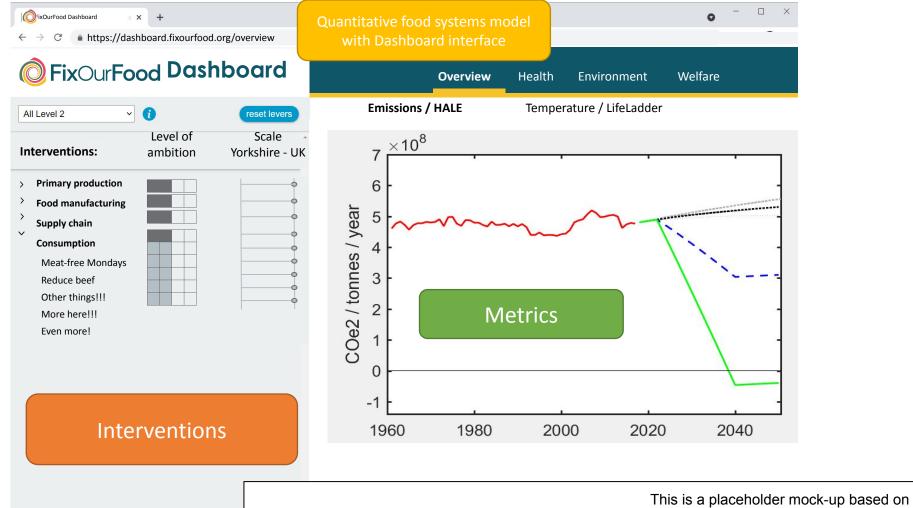


Main objectives

- Co-creation of metrics to signal progress of transformation
- Development of a Metrics Dashboard
- Development of an open-source codebase

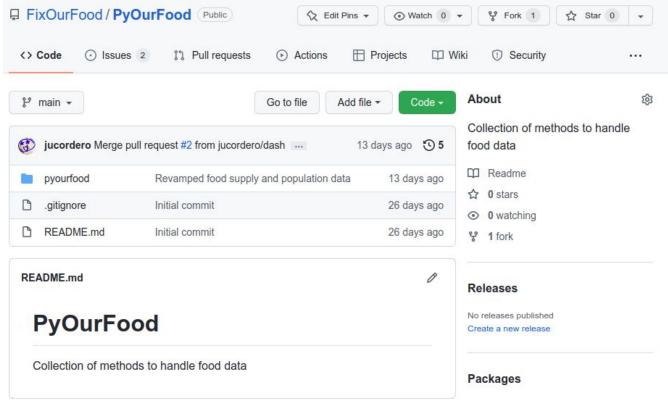
Metrics to signal progress of transformation

- Dietary metrics
 - Nutrient intake
 - Diseases and disorders
- Environmental metrics
 - Temperature anomaly
 - Land use
 - GHG concentrations
- Socioeconomic metrics
 - Cost of living
 - Food availability



https://mackaycarboncalculator.beis.gov.uk/overview/emissions-and-primary-energy-consumption/

Food system modelling codebase



https://github.com/FixOurFood/PyOurFood