



SDC A+FS Network

Food Systems Learning Journey

A learning adventure taking us around the globe to understand and act more systemically



Launch Event

Food Systems Essentials



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Food Systems Essentials

- *Welcome*
- *Keynote address (Patricia Danzi)*
- *Food Systems Concepts (John Ingram)*
- *Discussion*
- *The Learning Journey's structure and activities*



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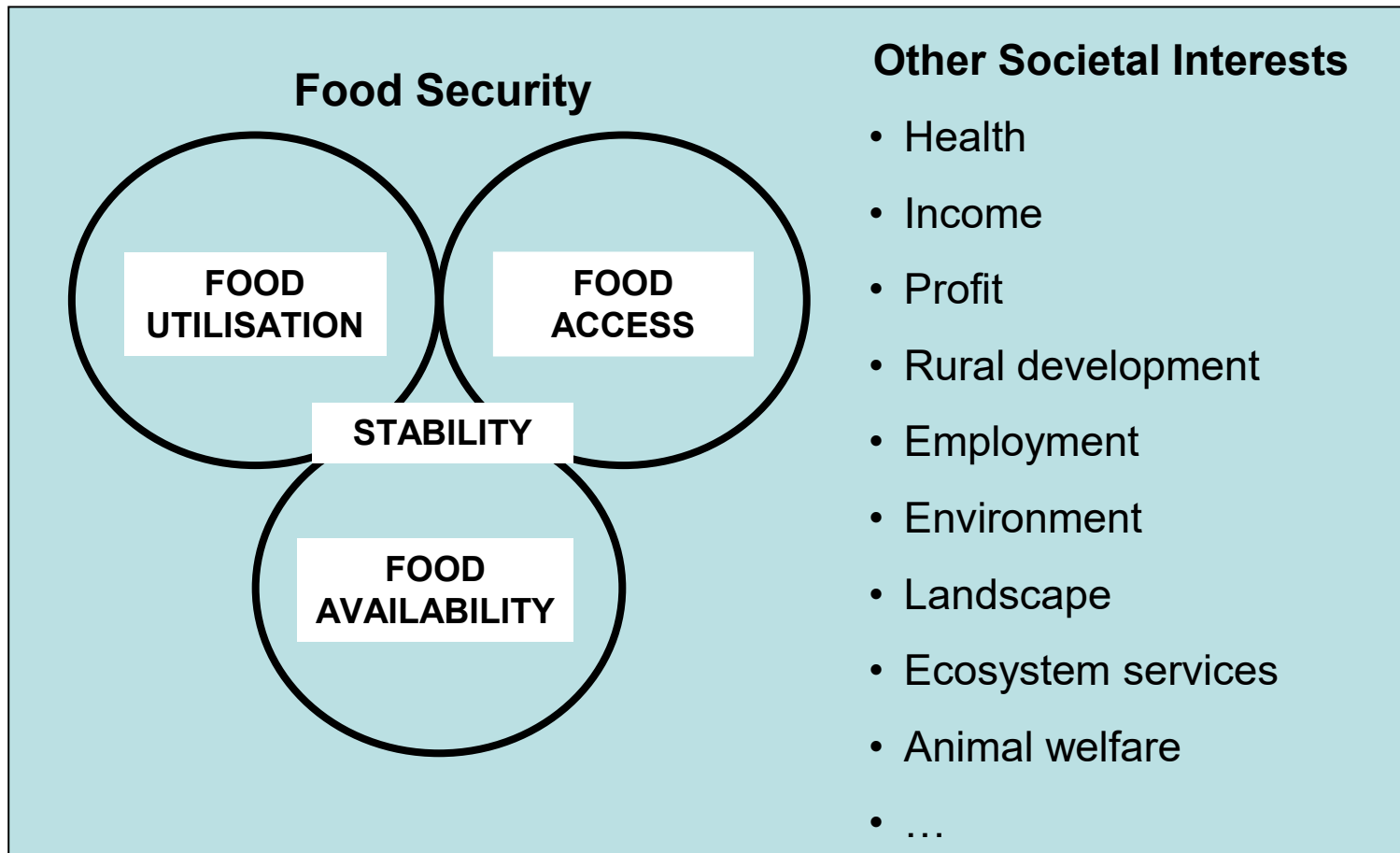


Food Systems Concepts

Dr John Ingram

JohnSIngram@gmail.com

What do we want from Food Systems?



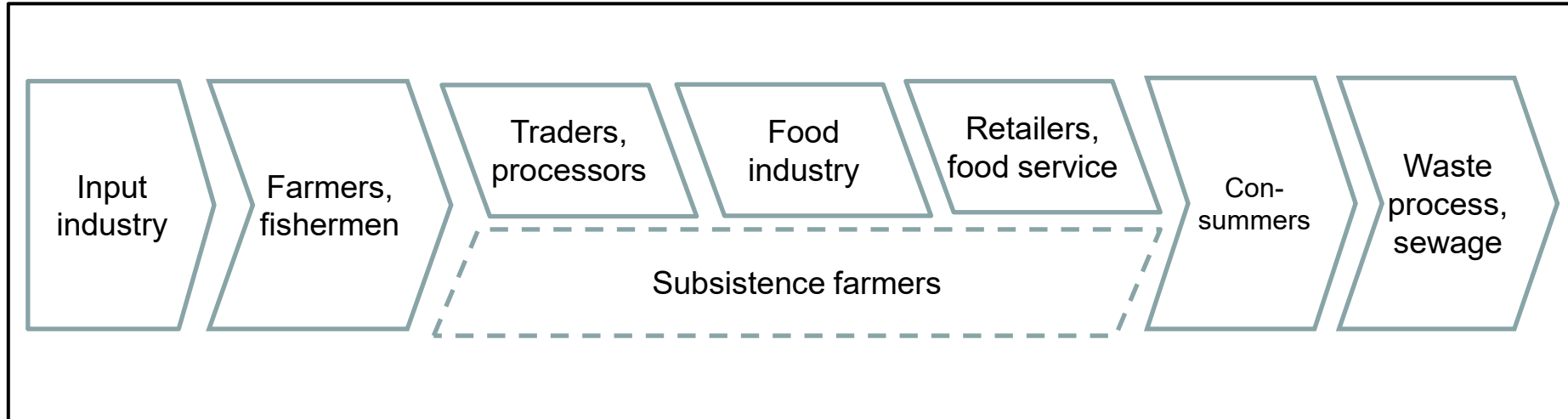
“Unpacking the Food System”

1: Recognising different Food System ‘Activities’



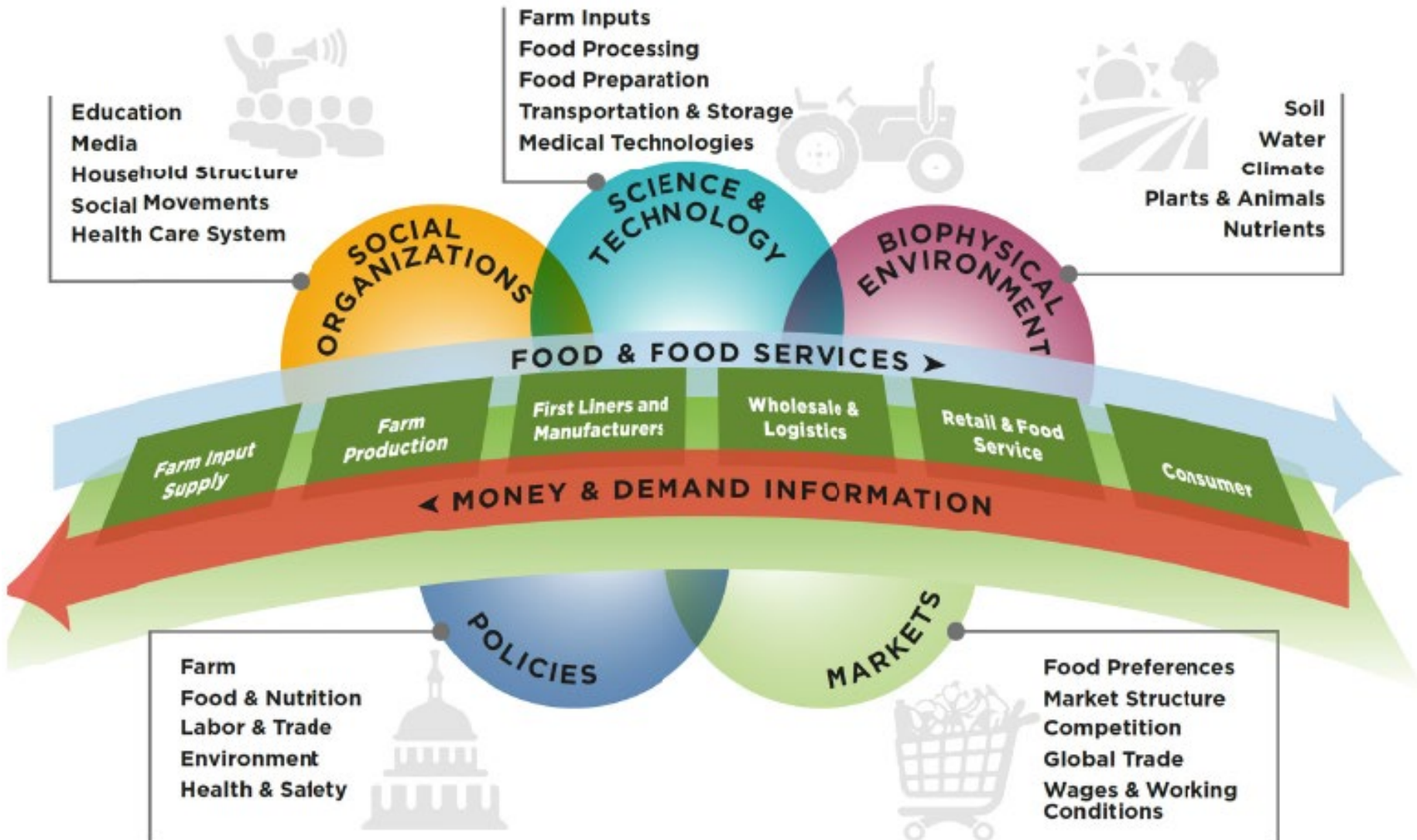
“Unpacking the Food System”

2: Recognising the range of Food System ‘Actors’



All have a range of motives ...

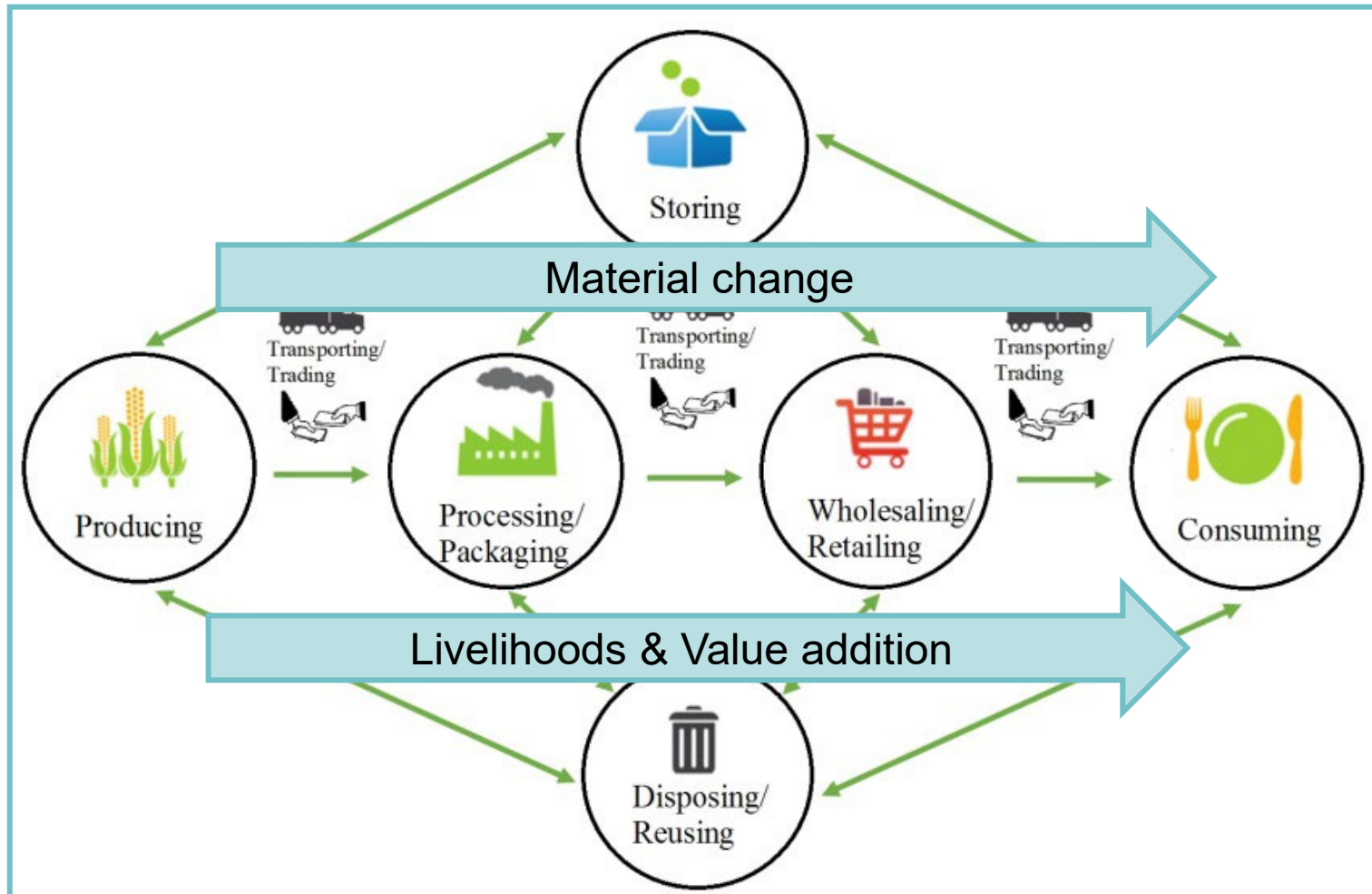
... and who are all influenced by a wide range of 'drivers'.



Source: The Institute of Medicine & The National Research Council of the National Academies, 2015

“Unpacking the Food System”

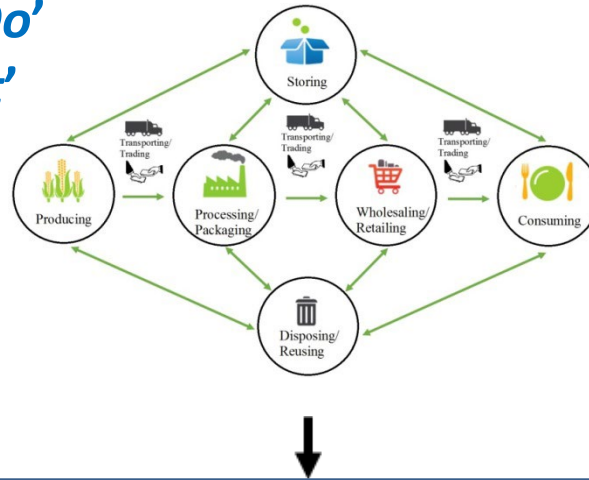
3: Recognising material change and value addition



“Unpacking the Food System”

4: Recognising the range of Food System ‘Outcomes’

Balancing the ‘What We Do’
with the ‘What We Want’
but the ‘What We Get’

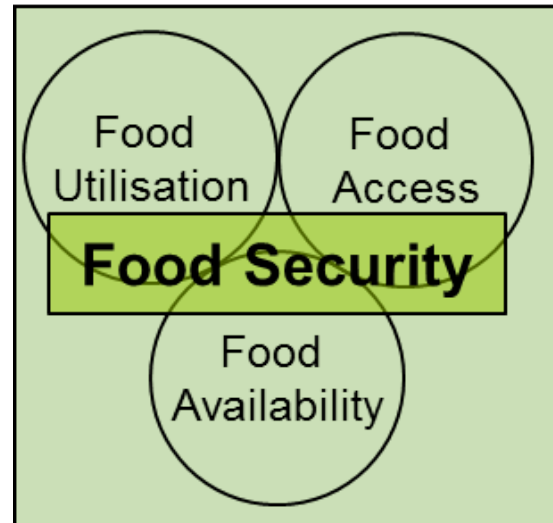


Trade-offs to
be aware of!

Synergies to
exploit!

Socioeconomic Outcomes

- Employment
- Wealth
- Health
- Social capital
- Human capital
- Equity
- ...



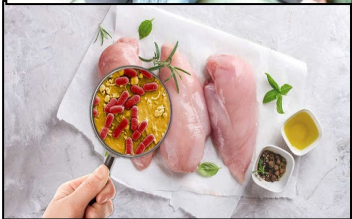
Environmental Outcomes

- Climate change
- Water availability
- Water quality
- Biodiversity
- Biogeochemistry
- Soil degradation
- ...

“Unpacking the Food System”

5: Clarifying food security ‘Outcomes’

“... when all people, at all times, have physical, economic and social access to sufficient, safe, and nutritious food to meet their dietary needs and food preferences for an active and healthy life.”



Food Security, i.e. **stability** over time for:

FOOD UTILISATION

- Nutritional Value
- Social Value
- Food Safety

FOOD ACCESS

- Affordability
- Allocation
- Preference

FOOD AVAILABILITY

- Production
- Distribution
- Exchange

Summary of food security 'Outcomes'

Insufficient cals
Insufficient nutrs
> 0.8 billion

Excess cals (incl. many
with insufficient nutrs)
> 2.5 billion

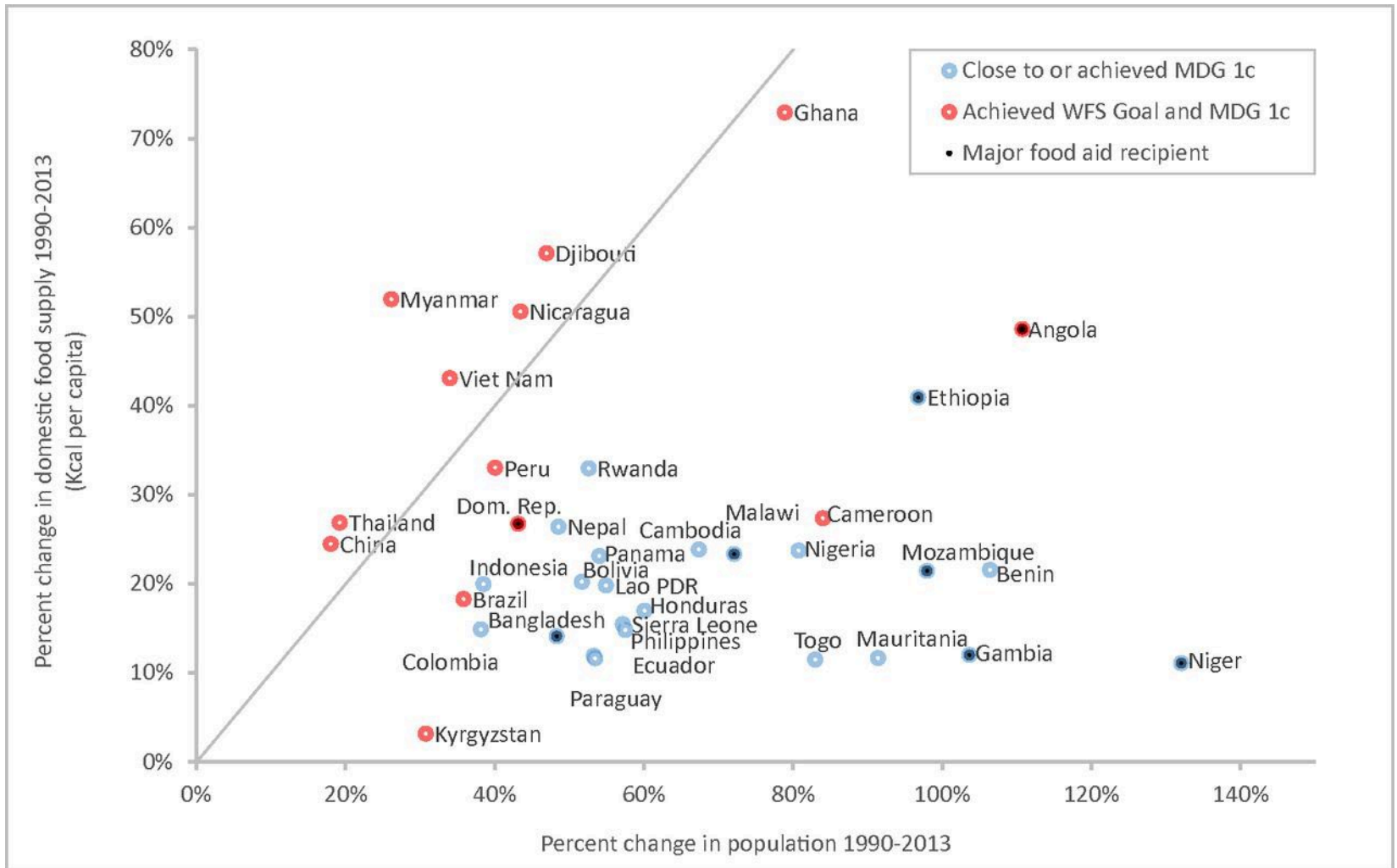
Sufficient cals
Sufficient nutrs
< 50%

Insufficient nutrs
?3 billion

- **“Triple Burden of Malnutrition”**
Different, overlapping forms of malnutrition the ‘new normal’ (IFPRI 2015)



Population growth versus food supply per capita, 1990–2013 (from refs. 6–10).

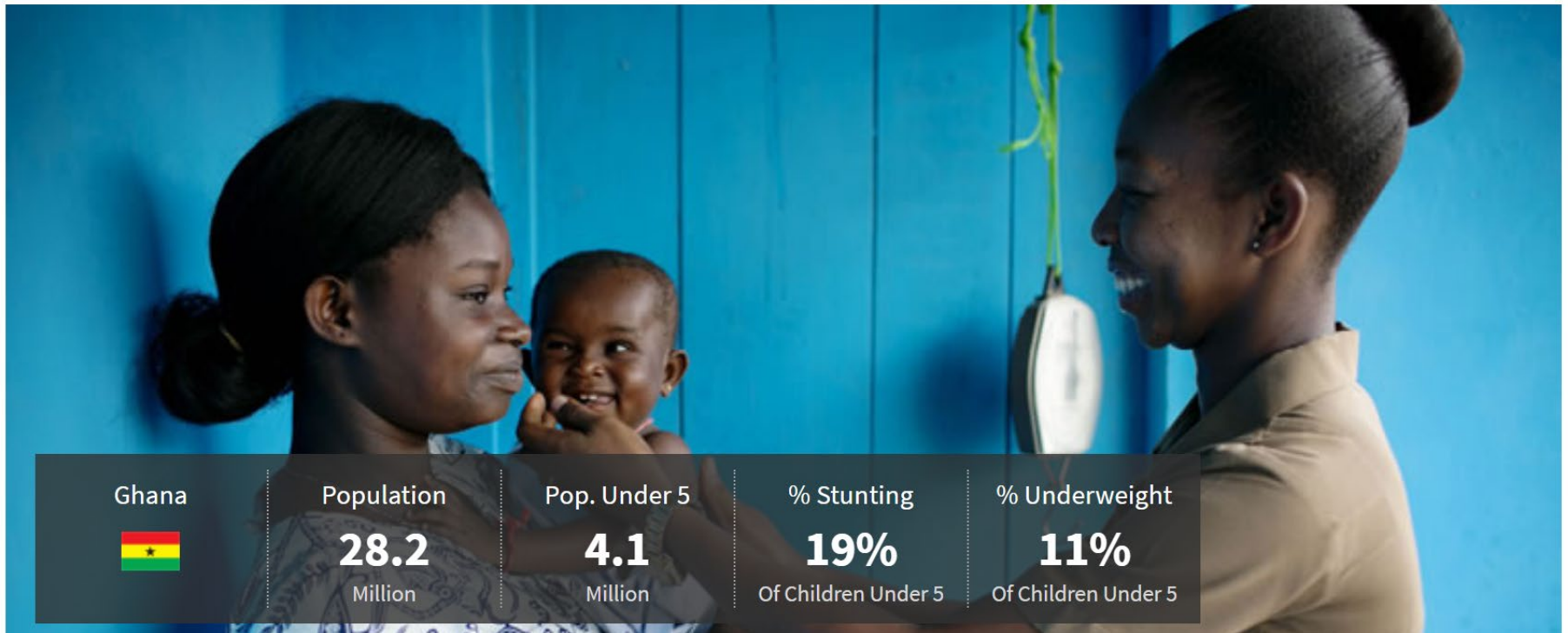


Prabhu L. Pingali PNAS 2016;113:18:4880-4883

PNAS

What's the 'situation' in Ghana? *undernutrition*

GHANA: NUTRITION PROFILE



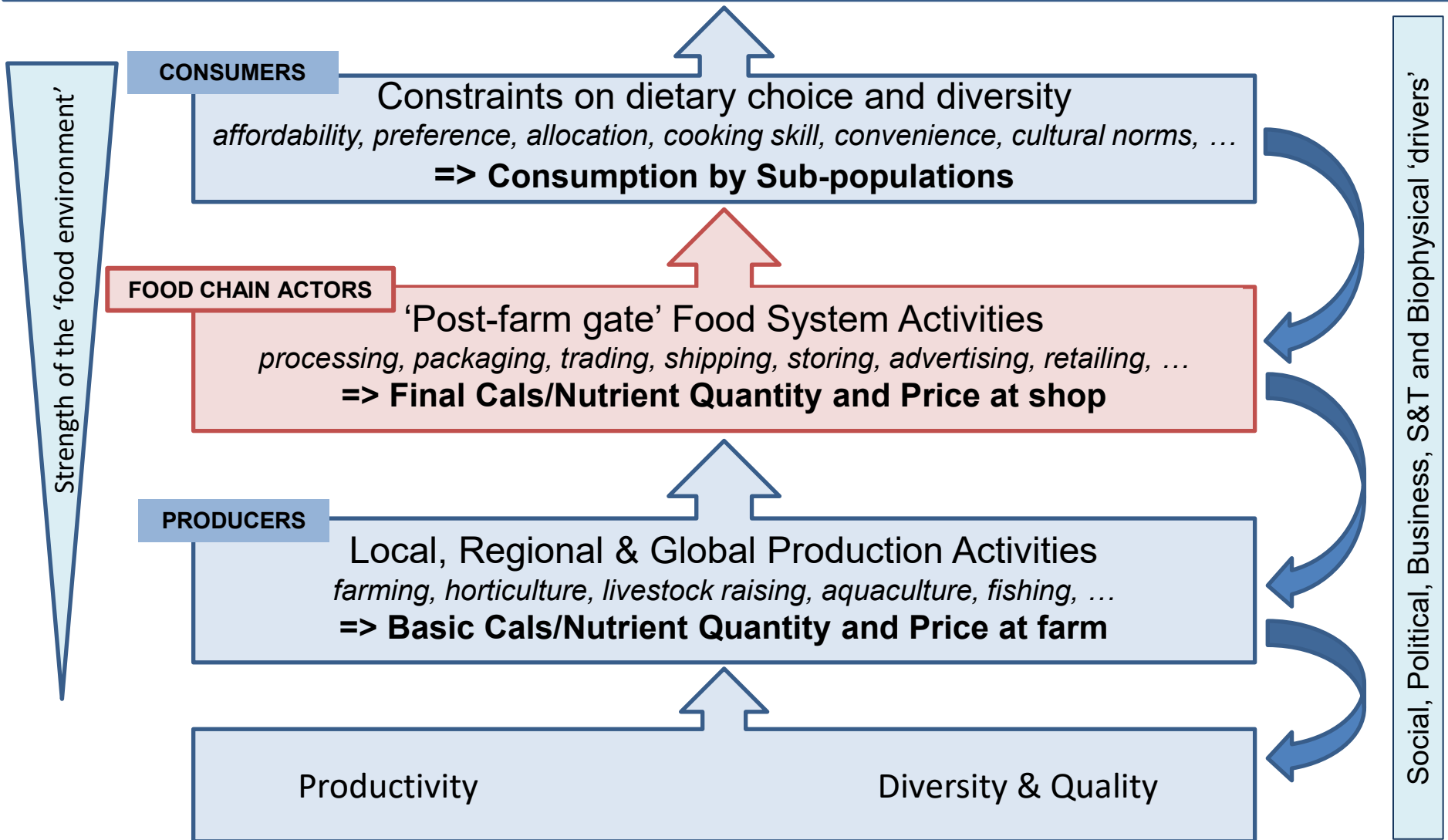
What's the 'situation' in Ghana?

overnutrition

The screenshot shows the GhanaWeb website interface. At the top left is the GhanaWeb logo with a Ghanaian flag. To the right are social media icons for Facebook and Twitter, a search bar labeled "Search GhanaWeb", and buttons for "Sign up" and "Login". Below the header is a breadcrumb trail: "You are here: Home → News → 2018 02 07 → Article 624163". A navigation bar contains tabs for "News", "Sports", "Business", "Entertainment", "World", "Country", "TV / Radio", and "Wall". On the left is a "Latest News" sidebar with links to Home - News, Archived News, Photo Archives, Video Archives, World News, Elections 2016, Entertainment, Business, and Crime & Punishment. The main content area displays the article title "Is fast food to blame for Ghana's obesity epidemic?" with a source of "face2faceafrica.com". Below the title is a navigation bar with "« Prev", "Next »", and "Comments (27)". The article text begins with "There is growing concern about rising obesity in Ghana and Africa at large." and continues with "According to research by Quartz, obesity is high among urban African women between 15 and 49 years and has increased in the 24 African countries the research has been conducted in over the last 25 years."

- 22% obesity in Ghana
- most prevalent among lower income earners
- 'fast food' most cited factor

So what determines which circle anyone falls into?



The private sector - the 'Missing Middle' in the conversation



Summary of environmental 'Outcomes'

- Soil 33% degraded
 - Fresh water 20% aquifers overexploited
 - Biodiversity 60% of loss
 - Marine resources 29% over-fished; 61% fully-fished
- And pollution: chemicals, plastics, litter, ...



ARTICLES

<https://doi.org/10.1038/s43016-021-00225-9>

nature
food

Check for updates

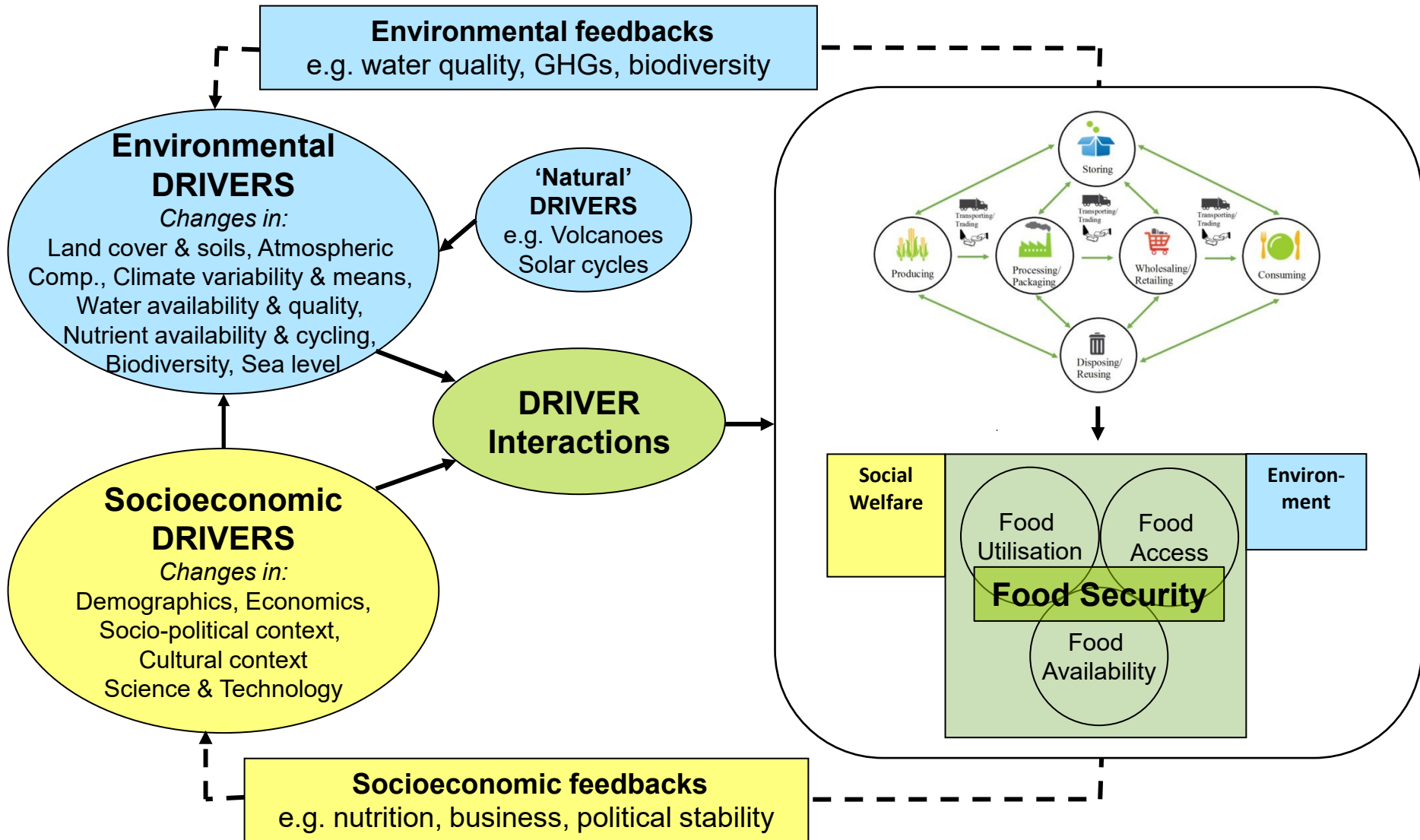
Food systems are responsible for a third of global anthropogenic GHG emissions

M. Crippa¹, E. Solazzo¹, D. Guizzardi¹, F. Monforti-Ferrario¹, F. N. Tubiello² and A. Leip¹

NATURE FOOD | VOL 2 | MARCH 2021 | 198-209

“Unpacking the Food System”

6: Recognising the System Dynamics

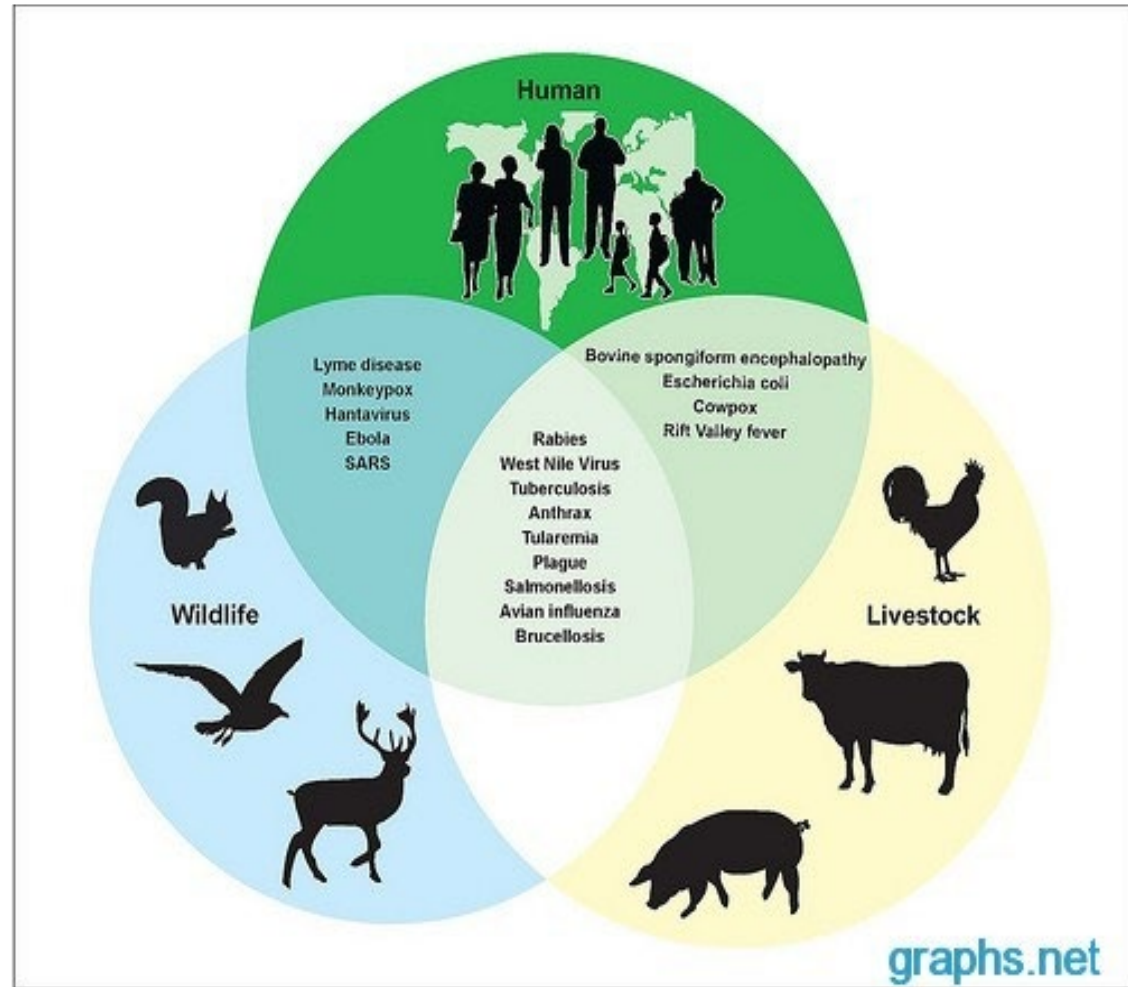


But we also have a host of ethical concerns ...

- Inter-generational environmental legacy
- Child labour
- Animal welfare
- Workers rights
- Food waste
- Farmer welfare and safety
- Equity
- Civil harmony
- ...

... current concerns about animal-human interactions

- Links between human and animal prophylaxis, e.g. Anti-Microbial Resistance
- Increasing risk of disease emergence with the rapid changes at the Animal-Human interface.



Food System Challenge Today

Achieving food security for a growing, wealthier, urbanising population while minimising further environmental degradation and maintaining vibrant food system livelihoods and enterprises.

against a background of

- changing climate
and
- natural resource depletion
and
- reduced agrobiodiversity
and
- many stagnating rural economies
and
- social, geopolitical, economic and cultural changes

Reorienting our 'views' on Food System Outcomes

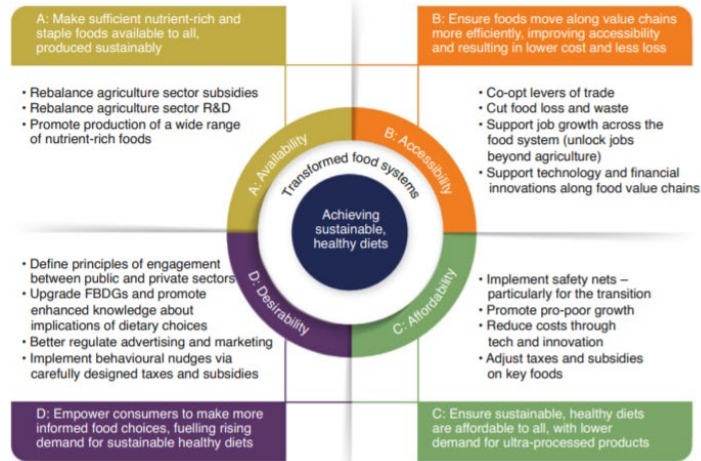
correspondence

Check for updates

The urgency of food system transformation is now irrefutable

To the Editor — Poor diets are the main contributor to the global burden of disease, accounting for 20% of premature disease-mediated mortality worldwide¹. Approximately 3 billion people cannot afford a healthy diet, and more than 3 billion people suffer one or more manifestations of poor nutrition¹. Poor nutrition can lead to reduced earning potential and increased costs for healthcare, it locks individuals and families into inter-generational cycles of poverty and deprivation, and perpetuates inequality and disadvantage.

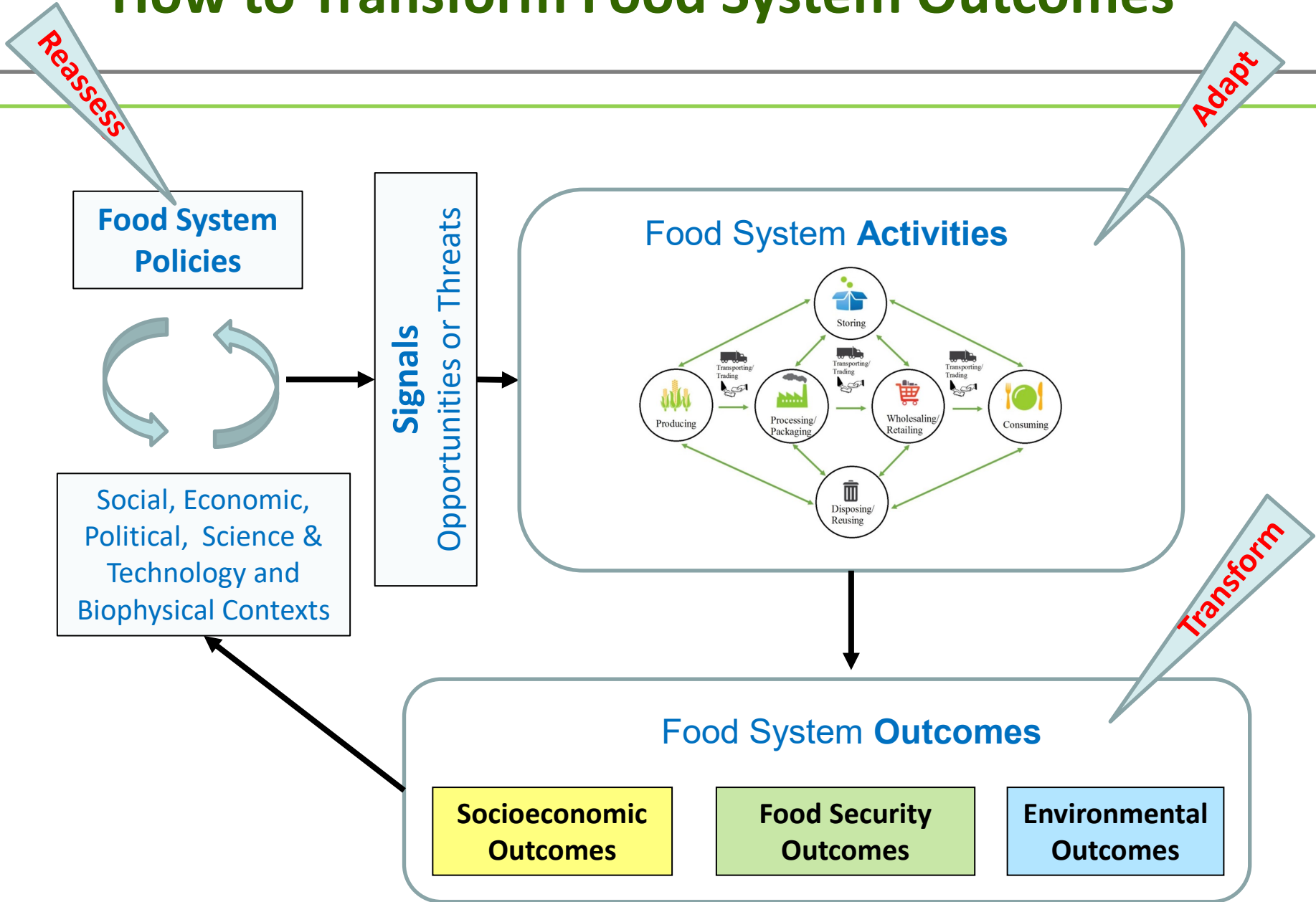
Even without projected global population growth — predicting a global population of 9.7 billion by 2050³ — it is likely that food systems are already operating beyond some planetary boundaries⁴⁻⁶. Agriculture and its associated land-use changes are the biggest contributors to climate change, accounting for roughly 21% of anthropogenic greenhouse gas emissions



“Achieving transformation will require a major shift in mindsets — especially regarding possible futures versus the status quo...” *Webb et al, Nature Food, 2020*

= Transforming food system outcomes from State A to State B

How to Transform Food System Outcomes





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FSLJ Structure and Activities

To help members of SDC's Agriculture and Food Security Network build an understanding of how food systems operate at regional level in different parts of the world.

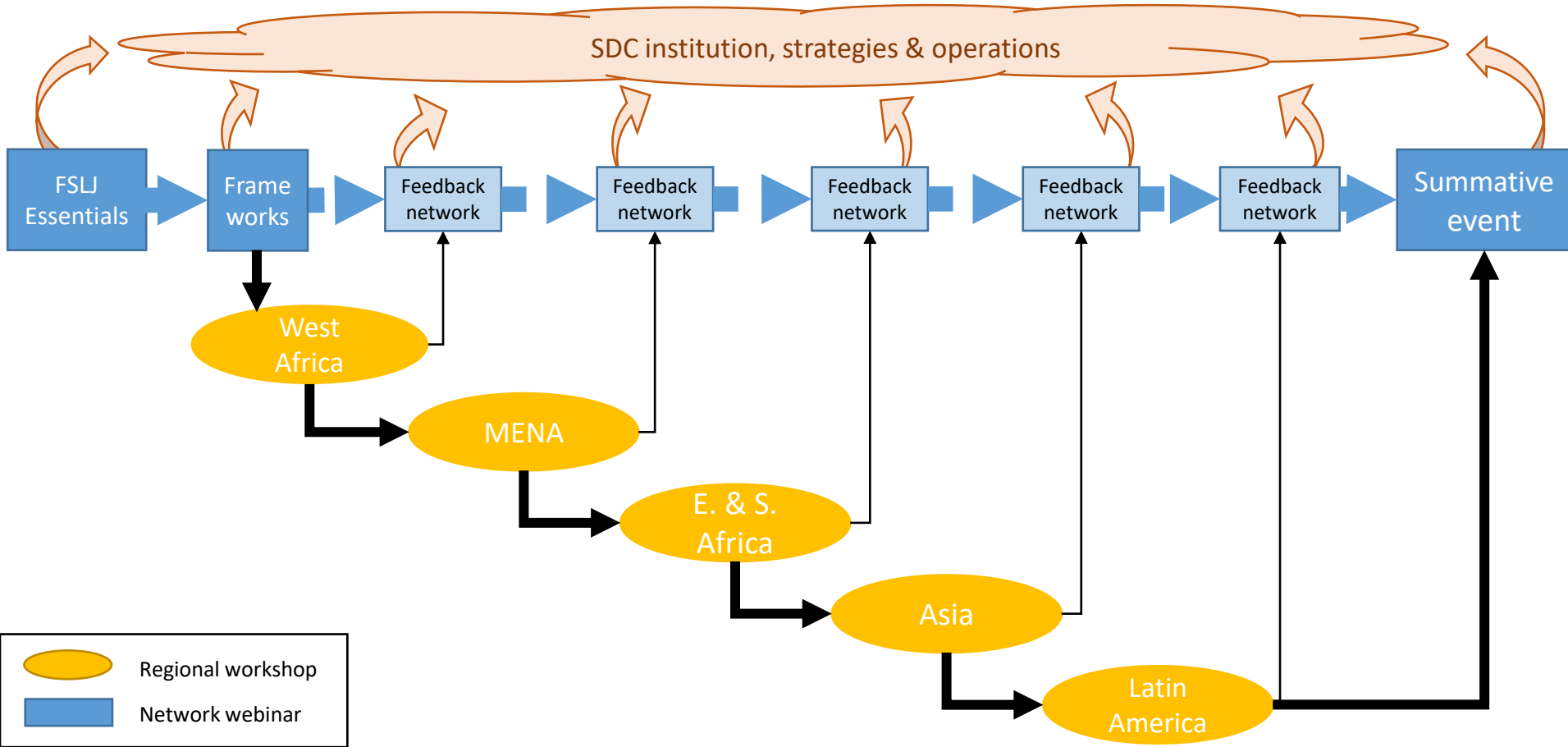
Network's primary thematic entry points

1. **Climate Change**, with linkages to the SDC Climate Change network
2. **Water**, with linkages to the SDC Water network
3. **Disaster Risk Reduction**, with linkages to the SDC DRR network
4. **Nutrition**, with linkages to the Health division
5. **Market Systems development**, with linkages to the Employment and Income (e+i) division and network

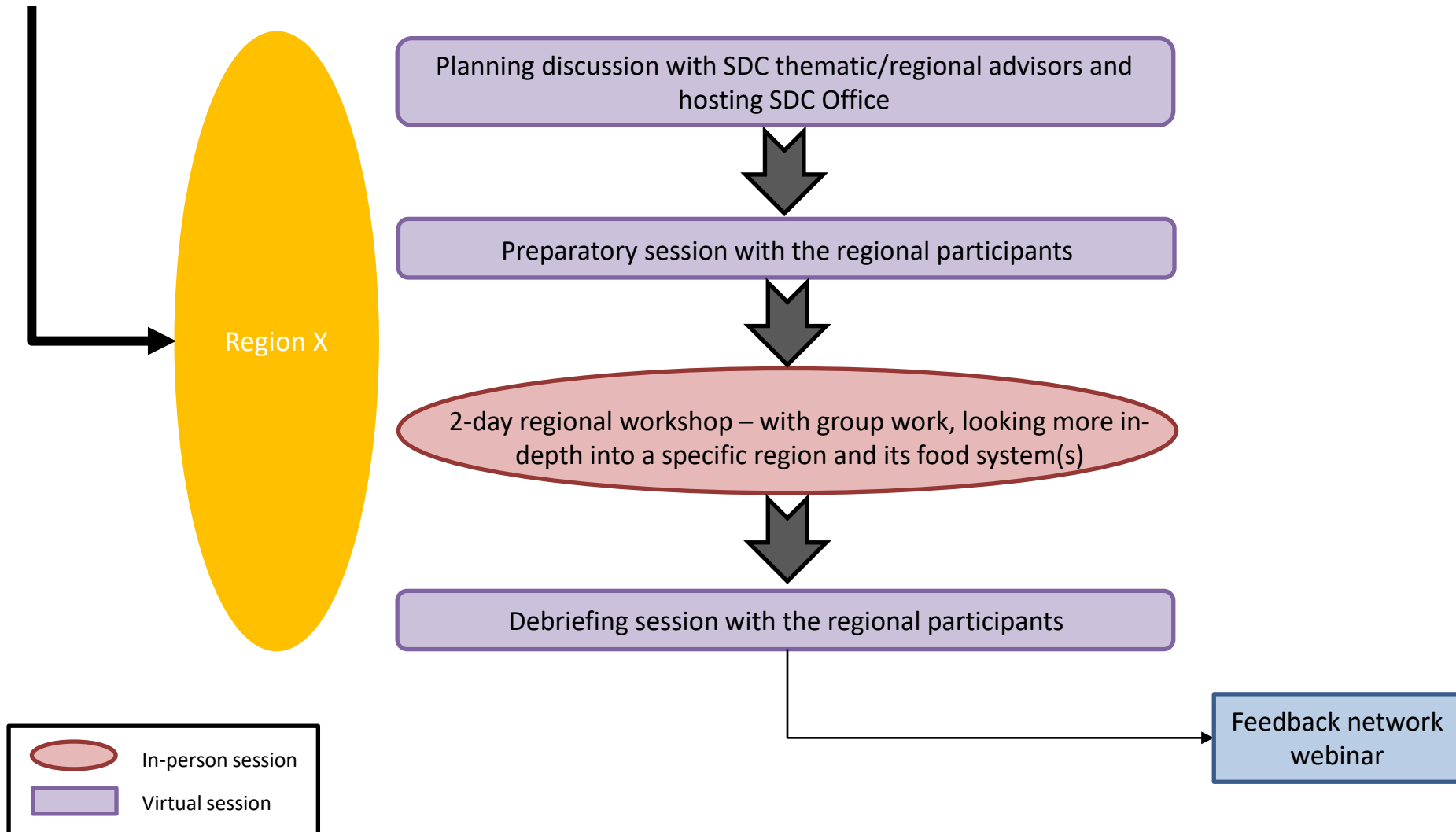
Country selection for regional Workshops

1. Detailed review of national activities and current and planned SDC projects + those of networked partners
2. Select host country based on four criteria:
 - (i) history and types of national projects regarding UNFSS
 - (ii) range of SDC food systems-related activity
 - (iii) ease of access from other SDC regional countries and overall logistics
 - (iv) main interests of relevant SDC Country Office

Food Systems Learning Journey Outline



Process for each Regional activity



Content for each Regional Workshop

Day 1

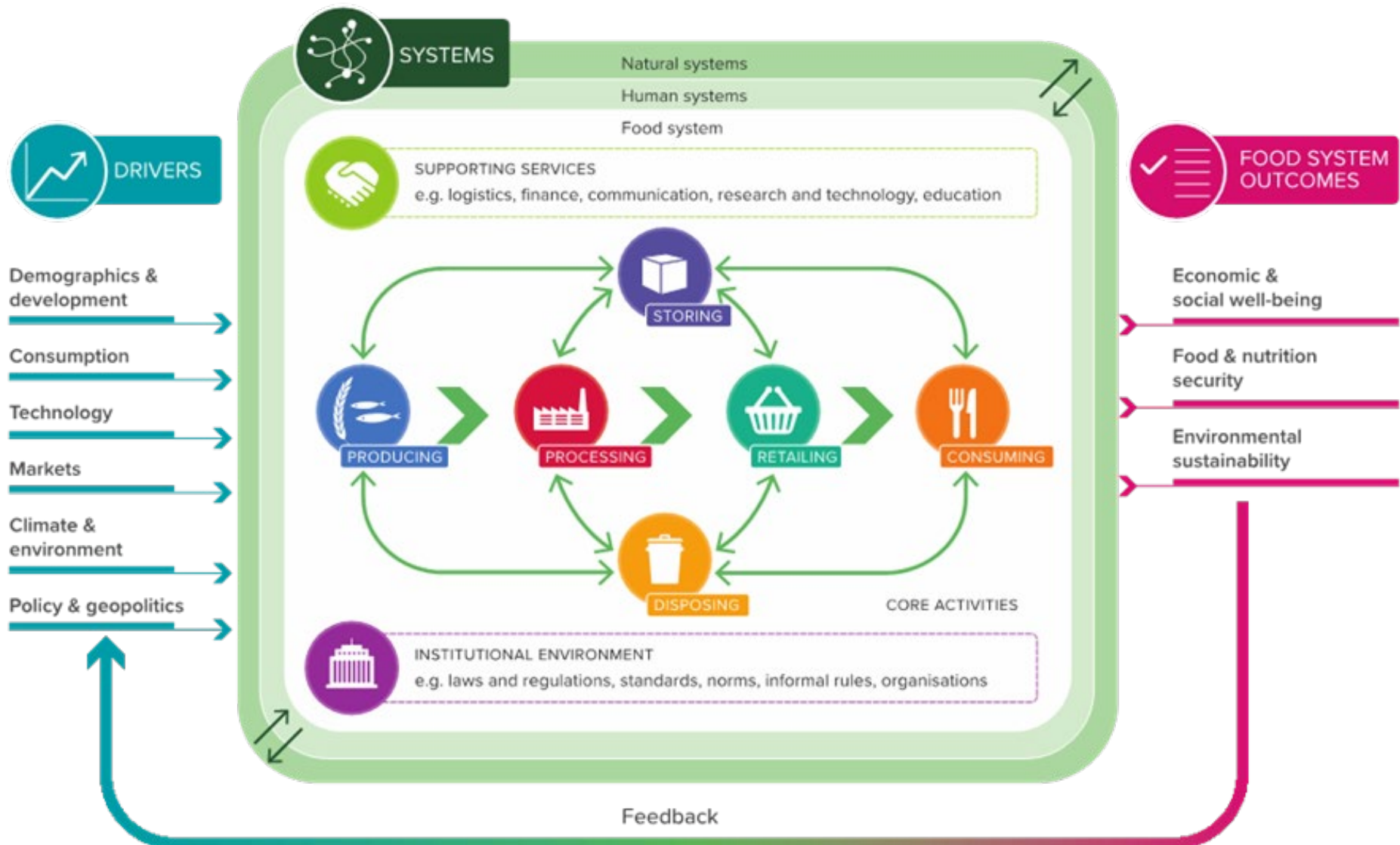
- Introduction
- Food Systems concepts and dynamics (recap seminar)
- Mapping Projects to food systems framework (group exercise)
- Systems thinking, framings, narratives and boundaries (seminar)
- Rich Pictures (group exercise)
- Transformation Statements (group exercise)

Day 2

- Trade-off analysis (group exercise)
- Stakeholder identification and mapping (group exercise)
- Foresight theory and concepts (seminar)
- Bringing about Change and Backcasting (group exercise)
- Resilience theory and concepts (seminar)
- Summary and wrap-up discussion (seminar)

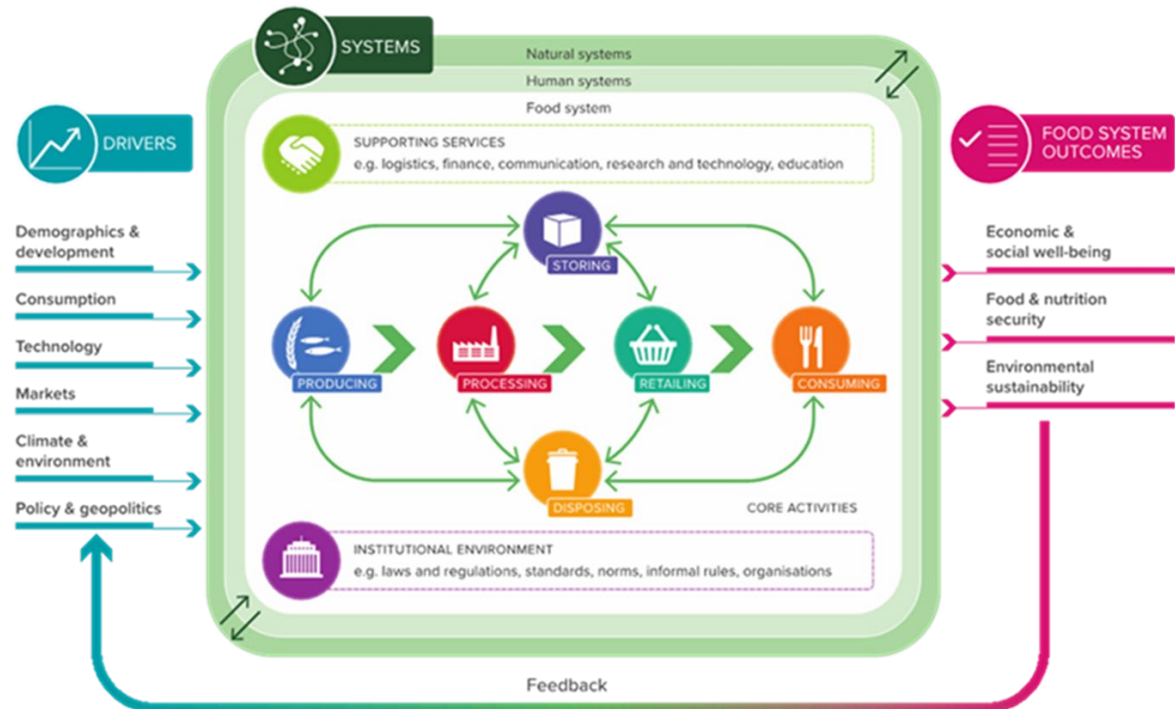
Group exercises based on local/regional issues as identified in Steps 1 and 2.

A conceptual framework for the FSLJ *based on food system concepts*



Why is it so hard to make progress?

- Complex adaptive system, many interactive 'drivers' and feedbacks
- Set of dynamic actors and activities
- Wide range of power and vested interests
- Fragmented governance
- Traditional silo approaches; poor ability to deal with complexity



However...

- Many policy, fiscal, social and technical options for change
- Many options for cooperation among actors
- Many plausible futures

Summative Event

June 2023

In person-event to

1. Review regional outputs in context of overall learning journey
2. Discuss application of food systems approaches to Project planning and delivery
3. Plan next steps for the A&FS Network

Dates and venue TBD

Timetable for FSLJ Activities

Late Oct 2022	System boundaries and framings, thematic linkages (virtual)
Early Dec 2022	West Africa: Bamako
Mid-Dec 2022	MENA: Cairo
Late Jan 2023	East & South Africa: Harare
Early Mar 2023	Asia: Bangkok (tbc)
Mid Apr 2023	South America: La Paz (tbc)
Jun 2023	Summative event (in-person / hybrid)