



**Economic &
Health costs of
FBD**

The ~~Problem~~ or the Opportunity

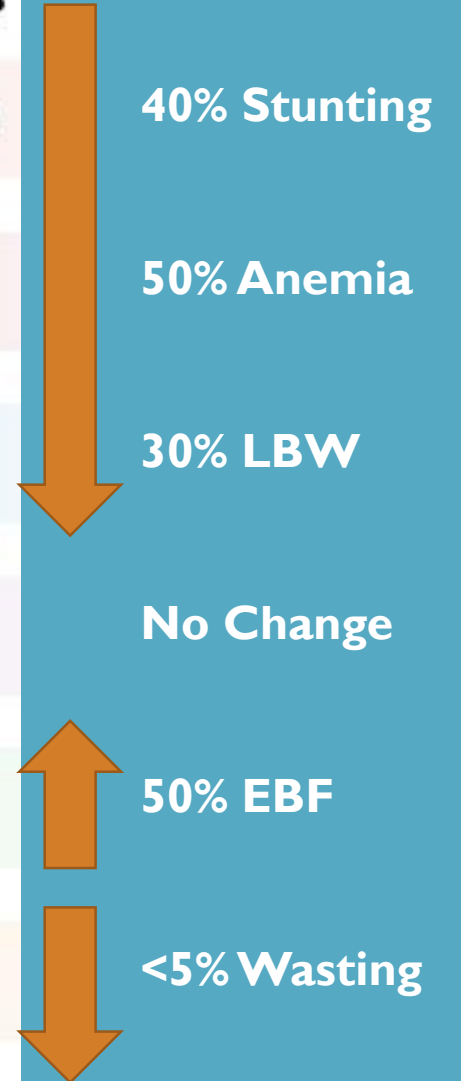
Diverse &
Changing Diets

Threat to
Health &
Investment

Confusing & Costly
Management
Systems

Lagging &
Expensive Public
Sector Investment

WHA Global Nutrition Targets 2025



Why Food Safety



The Goal!

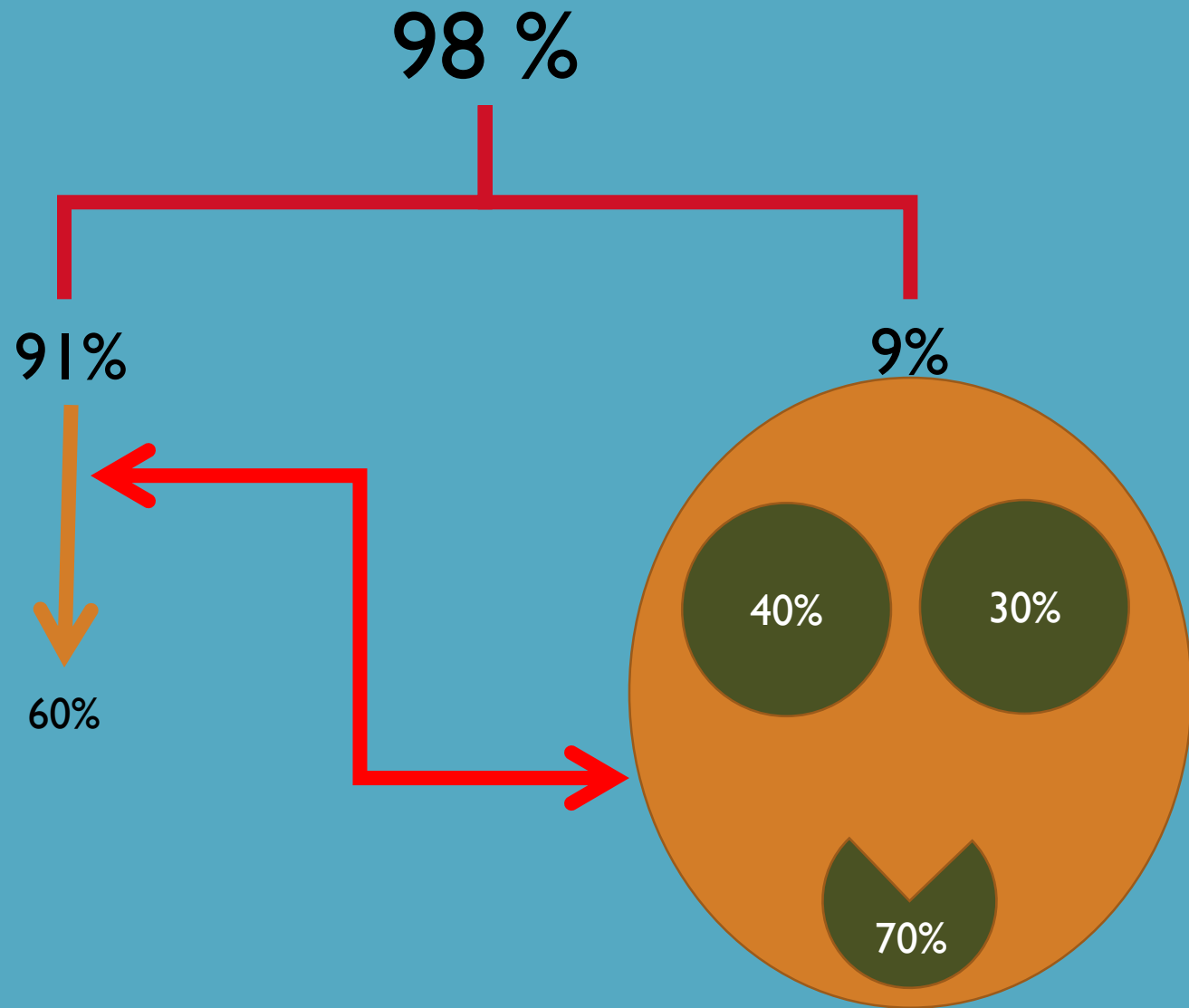


Improve
Diet
Diversity

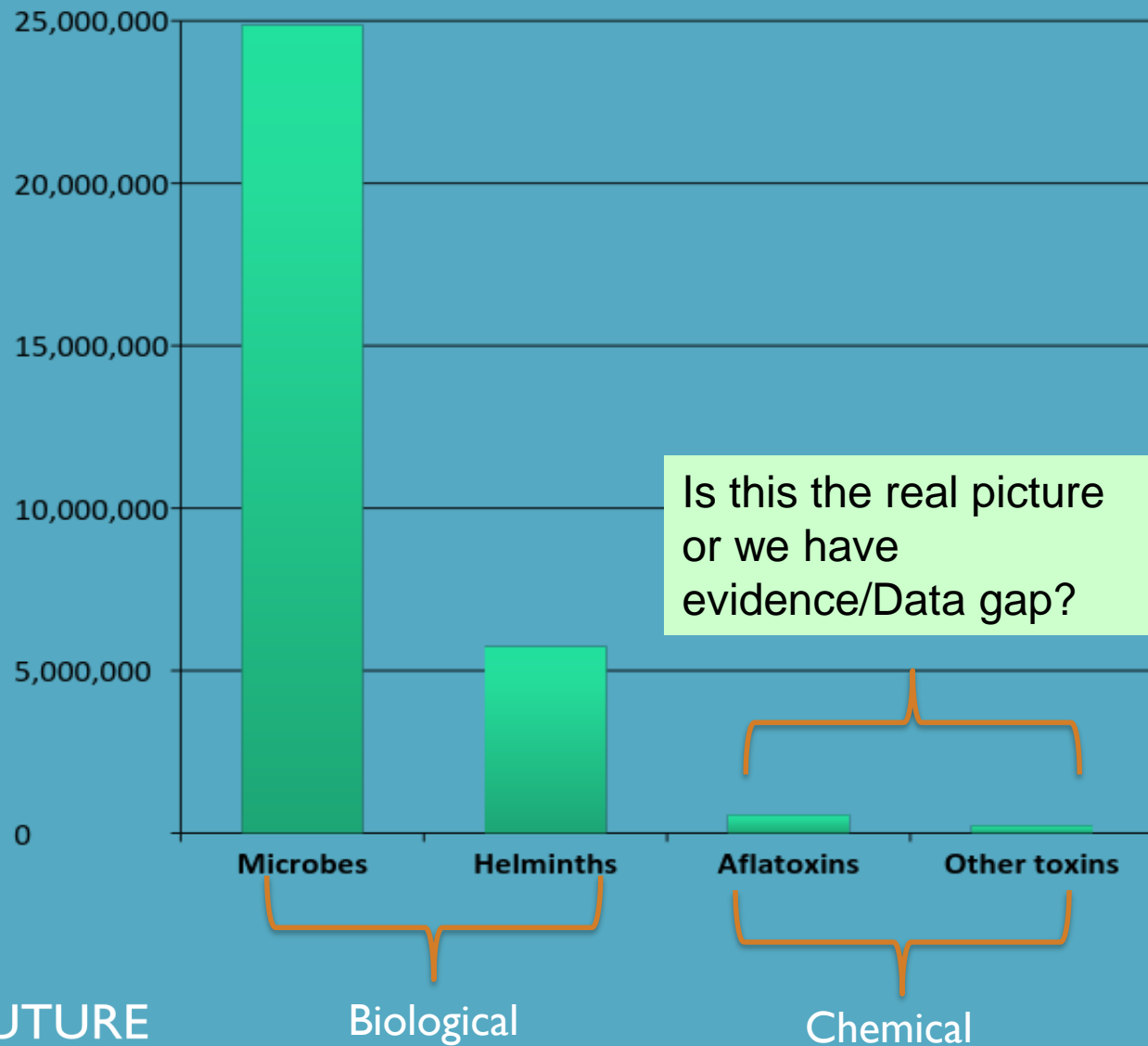


Better Nutrition

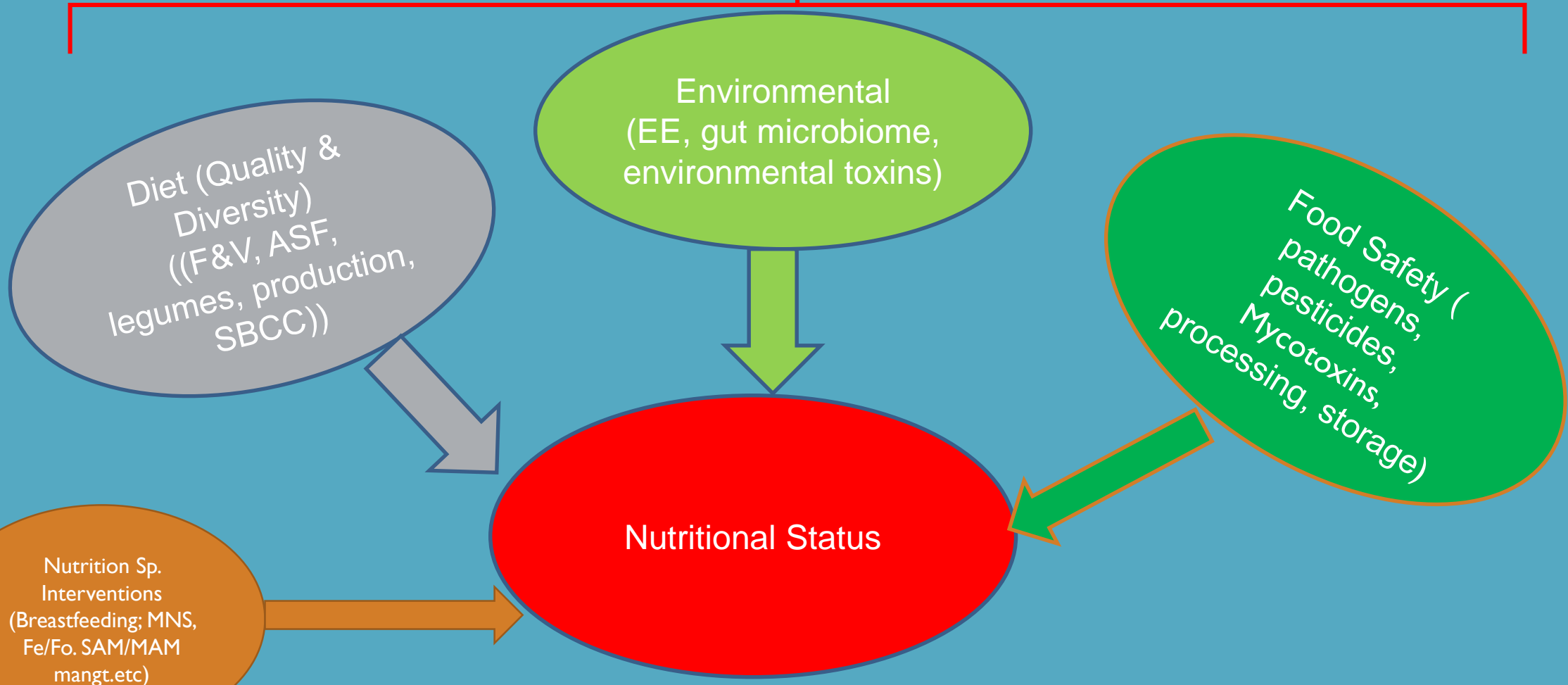




Causes of FBD



Agriculture Influenced



Key factors affecting Nutritional Status

Food Safety Impact on Nutrition & Health

- ✓ **Diarrheal diseases---Wasting**
- ✓ **Stunting**
- ✓ **Development**
- ✓ **Well-being**
- ✓ **Mortality**
- ✓ **Morbidity**

Economic Impacts of Food Safety-Direct

- ✓ **Loss of life**
- ✓ **Lost productivity**
- ✓ **Loss of leisure & travel opportunities**
- ✓ **Health Care system**
- ✓ **Loss of income**
- ✓ **Funeral cost**

Economic Impacts of Food Safety-Indirect

- ✓ **Costs of averting illness**
- ✓ **Disutility of illness**
- ✓ **Cost to the Nations & Government**
- ✓ **Costs to business and Industry**

Economic Impacts of Food Safety Indirect

✓ Costs of avoidable

✓ Direct

The total estimated annual economic costs from foodborne disease among LMICs is estimated, conservatively, to be \$>114 billion

Jaffee et al; Unpublished data

Government

Business and Industry

Global donor efforts so far!!

- **Aflatoxin/Mycotoxin focused**
- **Driven predominantly by trade outcomes, rather than nutrition/health outcomes**
- **Unclear how investments impact domestic markets and local consumers**



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Paying the price

2.50 Trillions

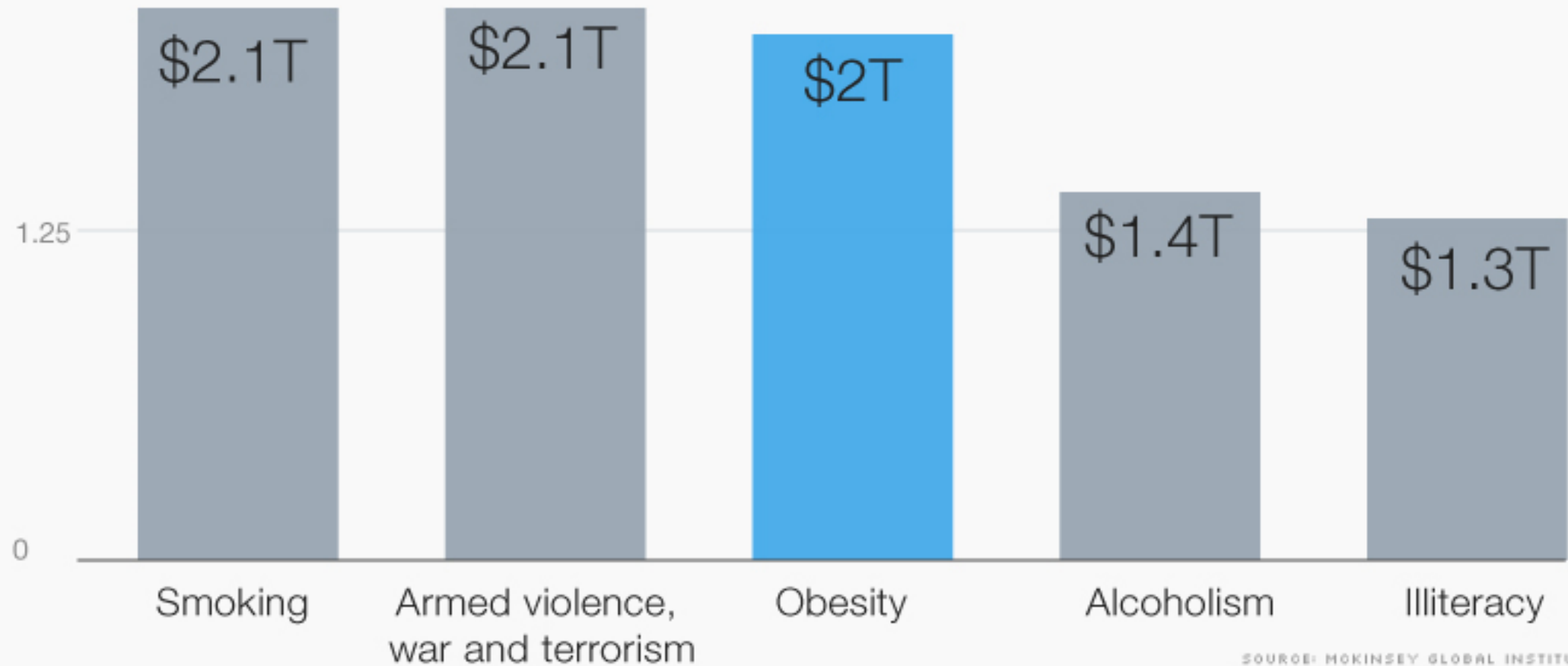


Figure 1. Food safety metrics conceptual framework.



Discussions

- Real Cost of FBD? What are the various dimensions and complexity associated with determining this?
- What are the other health consequences of FBD that have not been studied/considered in the economic cost analysis ?
- If you take other similar models done for estimating cost of other diseases (e.g. Obesity) –Think **DALY** and **QALY**