



Overview of frameworks for irrigation and water resource management impacts on child nutrition

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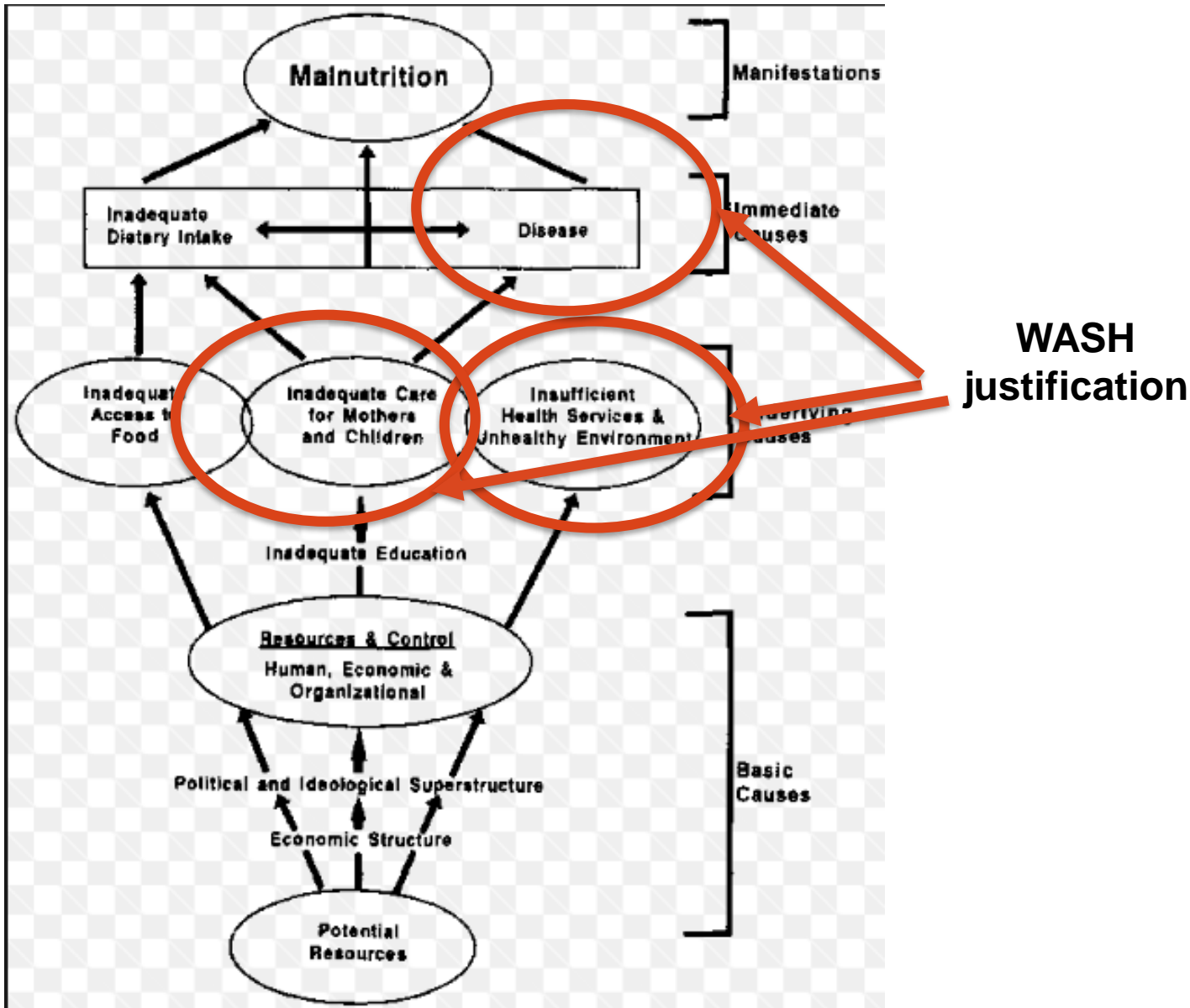
How does water link to nutrition?

Traditional Focus on WASH – Nutrition linkages

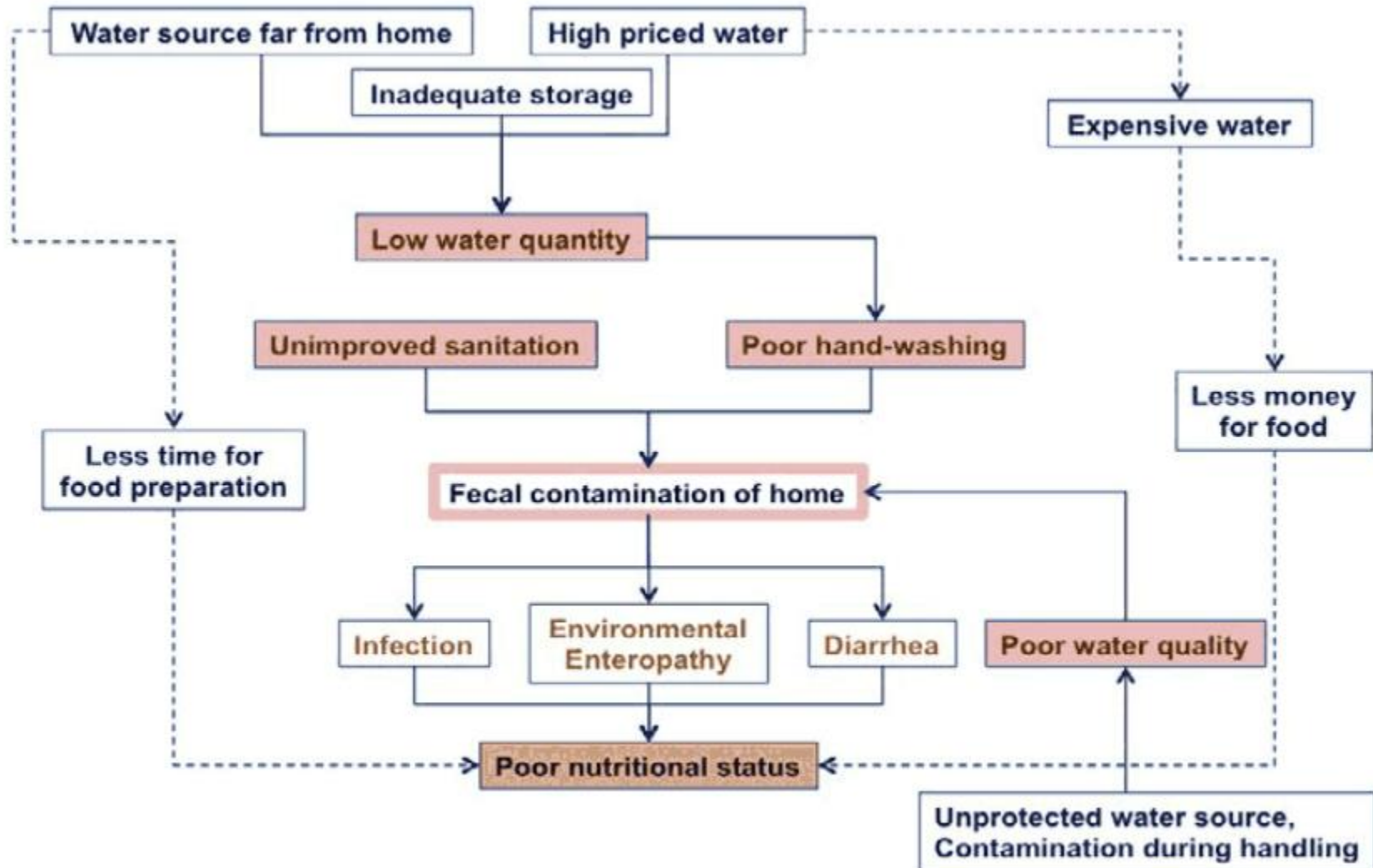


Direct justification through UNICEF 1990 Malnutrition framework

The UNICEF 1990 framework



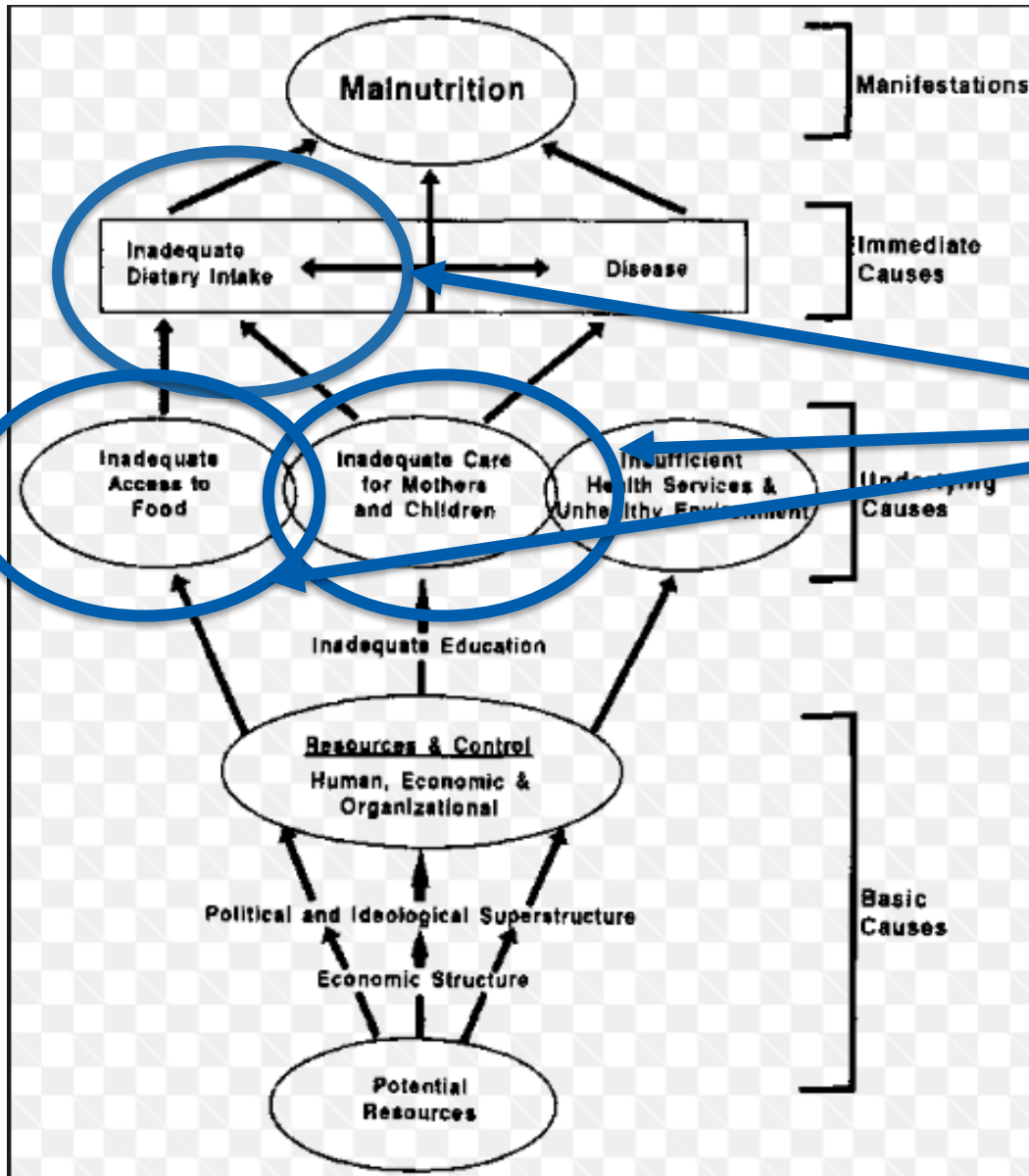
Example: Detailed WASH-Undernutrition schematic (USAID)



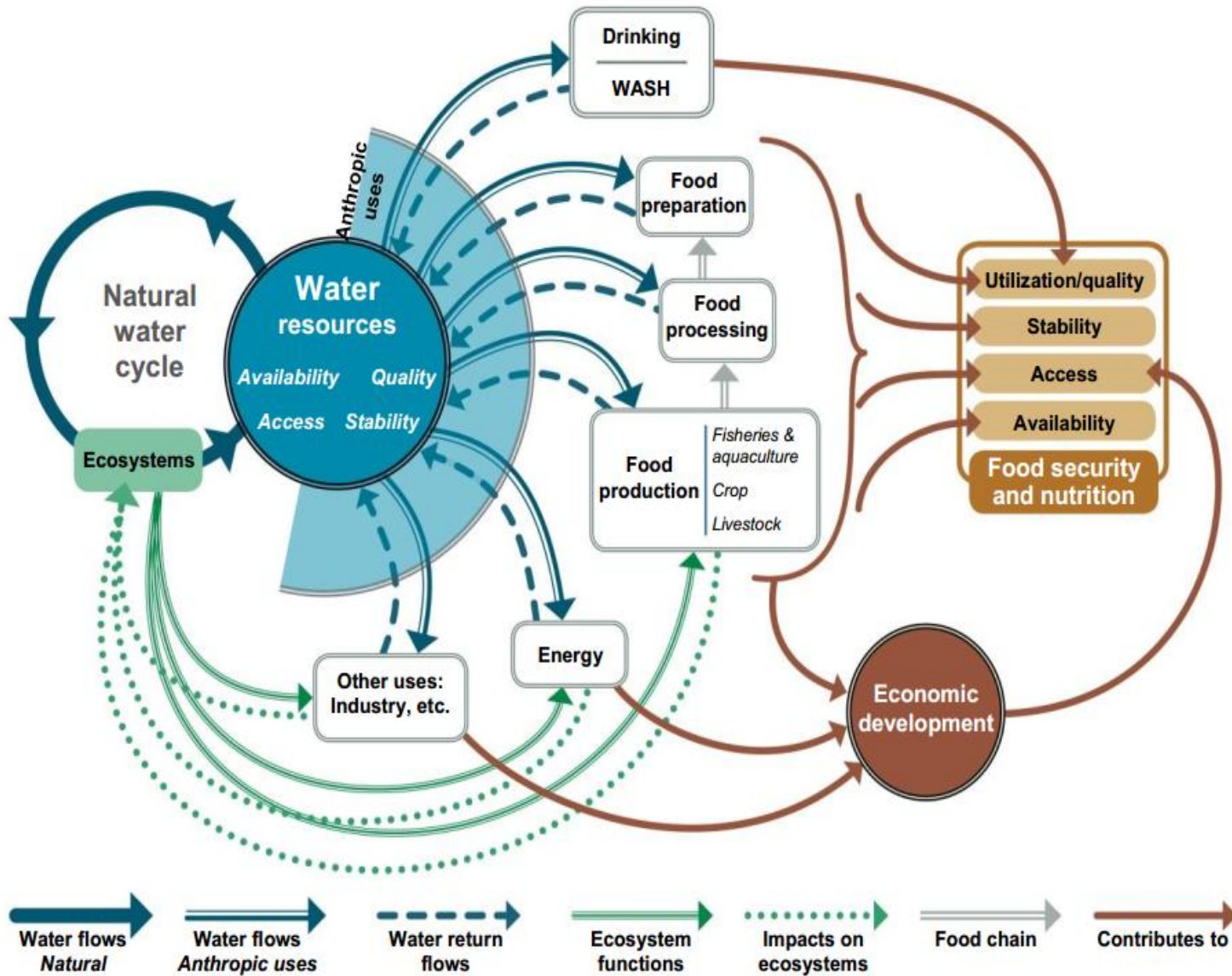


What do you associate with this picture?

The UNICEF 1990 framework

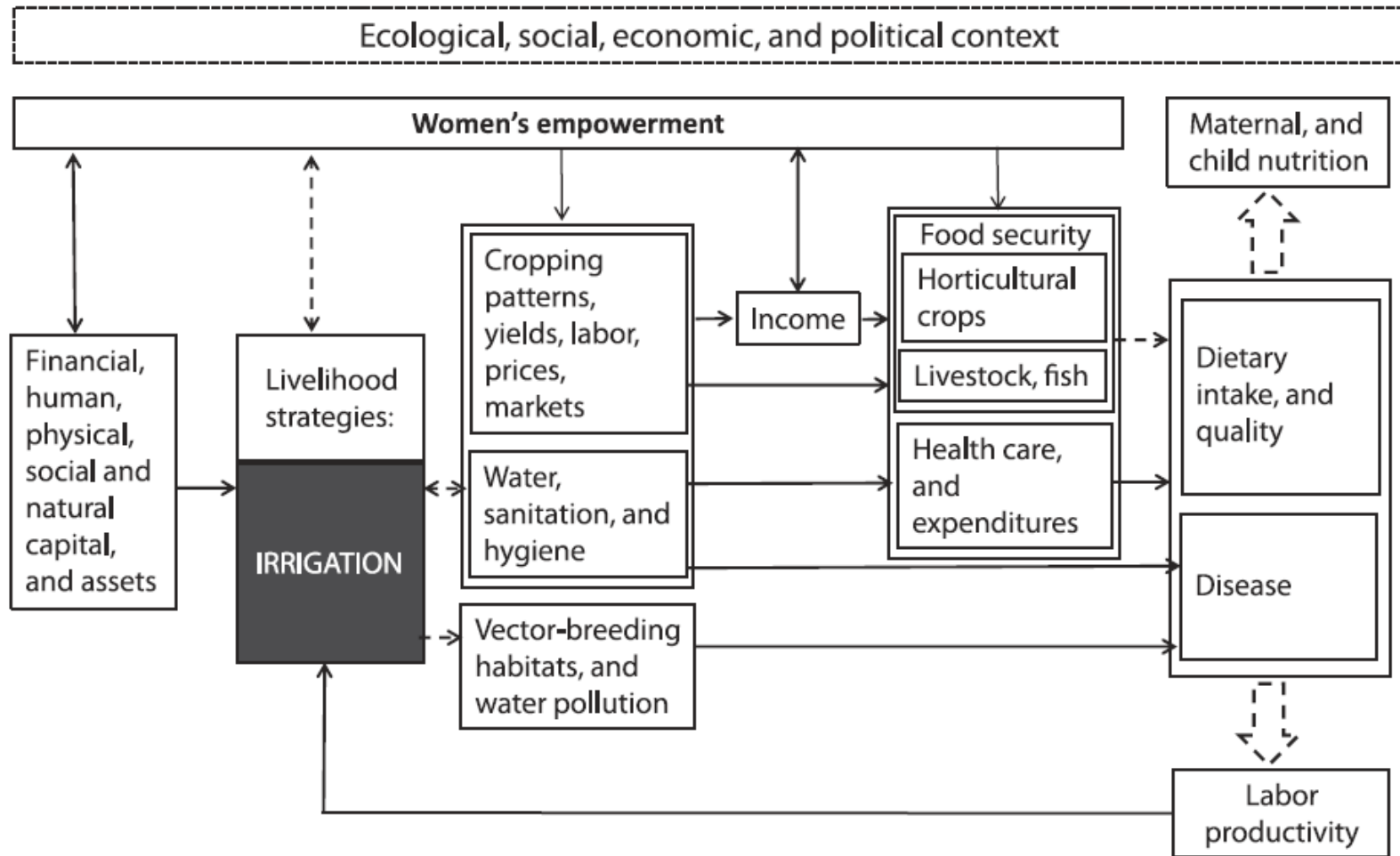


**Agriculture/
Irrigation
justification**

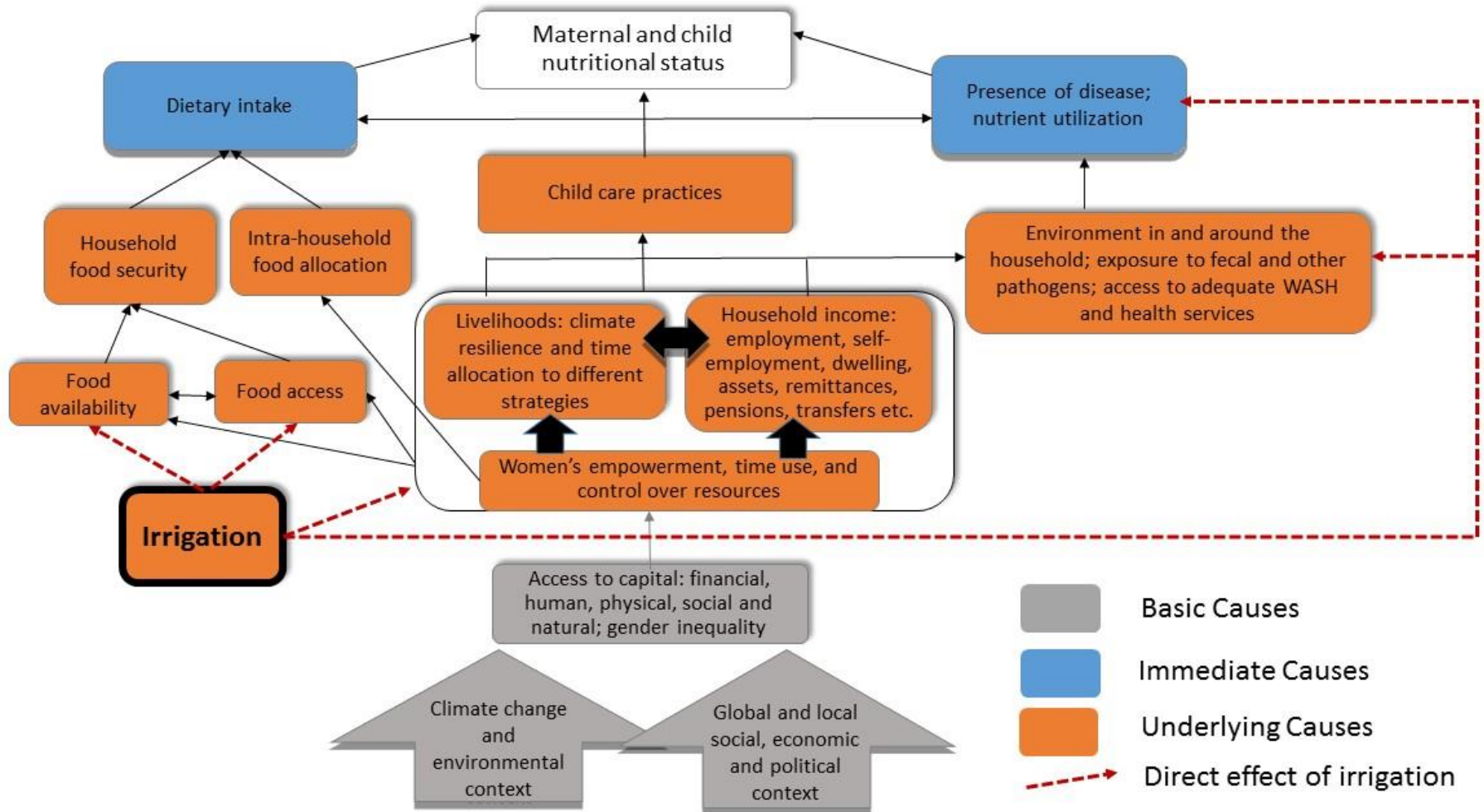


Source: HLPE (2015)

Irrigation-Nutrition Linkages

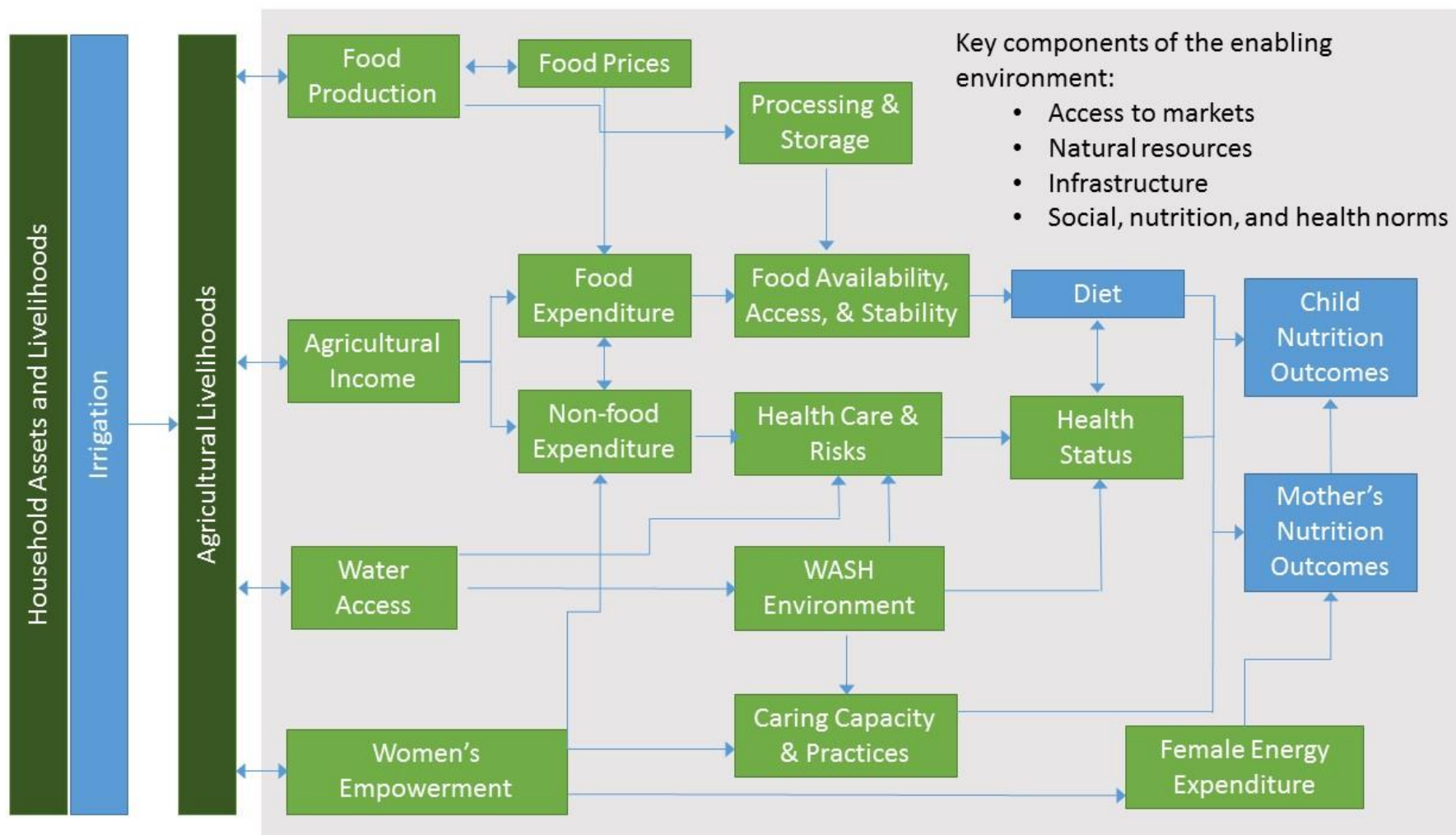


Irrigation-Nutrition Linkages

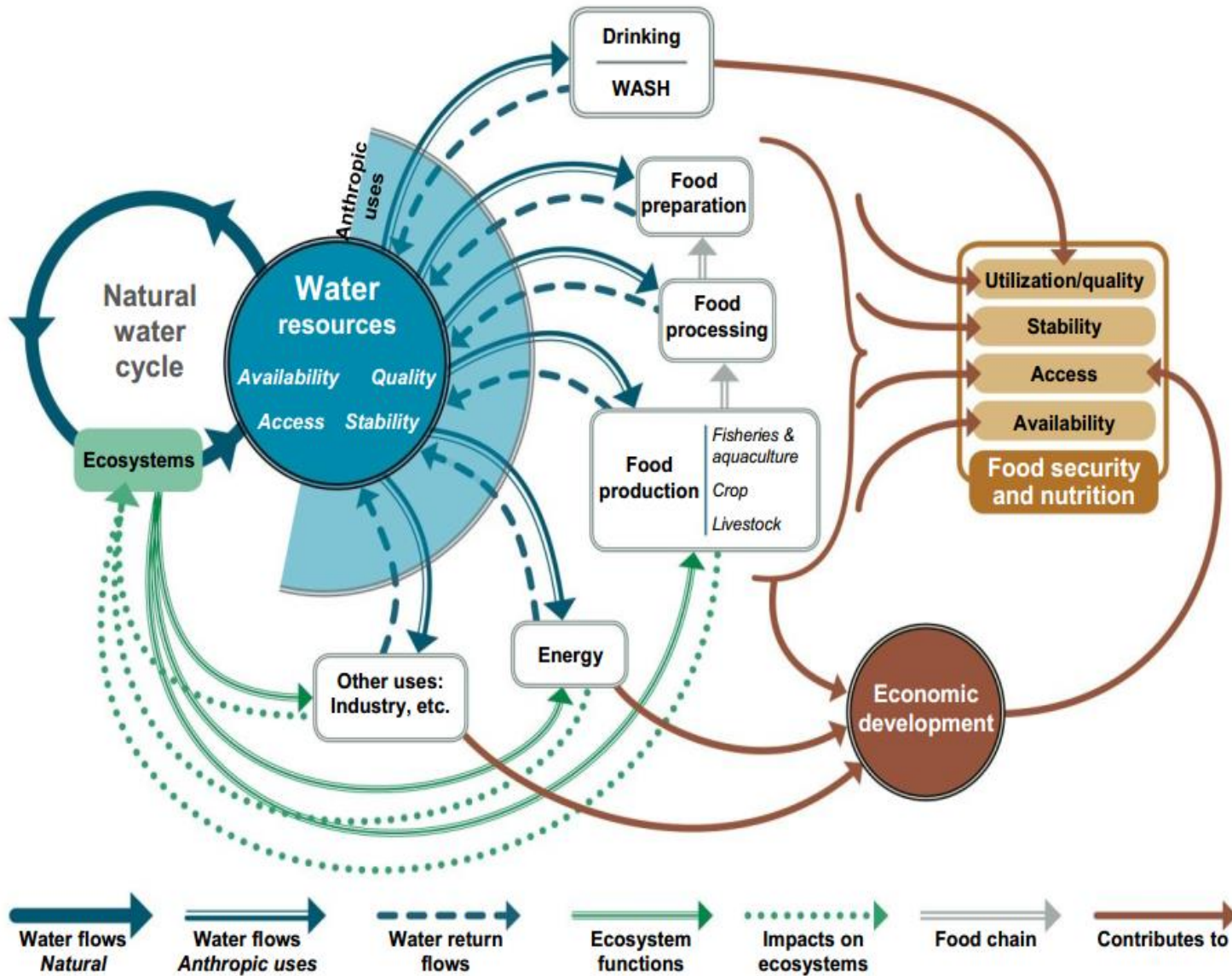


Adapted from Black et al., Lancet 2008/Lancet 2013

Irrigation-nutrition linkages



Adapted by the authors from Herforth and Harris, 2014



Source: HLPE (2015)

Conclusions

- First serious assessment of water nutrition linkages beginning in the 1990s, focus on WASH-Nutrition; trend growing until today or at least until recently
- Incipient analyses of irrigation-nutrition linkages through multiple pathways—still limited evidence, but several ongoing studies will broaden the results base
- Increasing understanding of the linkages between WASH & irrigation (ex of MUS)
- Increasing understanding of the complexity of water-nutrition linkages but no understanding of the impact of the complexity on child nutrition outcomes: large gaps on water resource management-nutrition, pollution-nutrition, climate-water-nutrition linkages and many other areas that need further exploration and also affect the more established WASH-nutrition linkage debate