

Planning under Constraints in Water-Food-Energy Systems

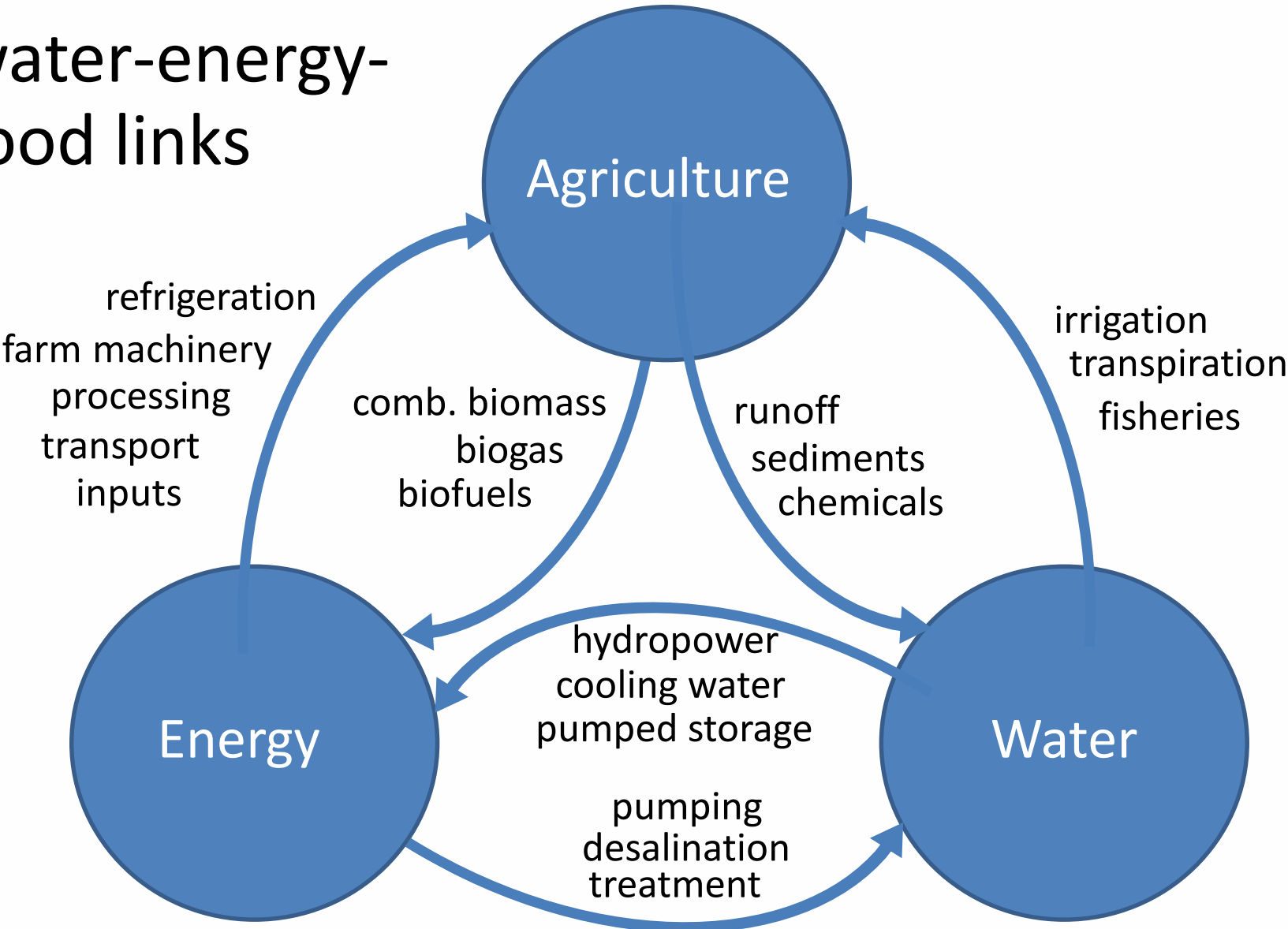
4th Asia-Pacific Climate Change Adaptation Forum
1 -3 October 2014, Kuala Lumpur, Malaysia

Panel 1.2: **Climate sensitivities and interactions of the
water, food and energy systems**

Overall Message

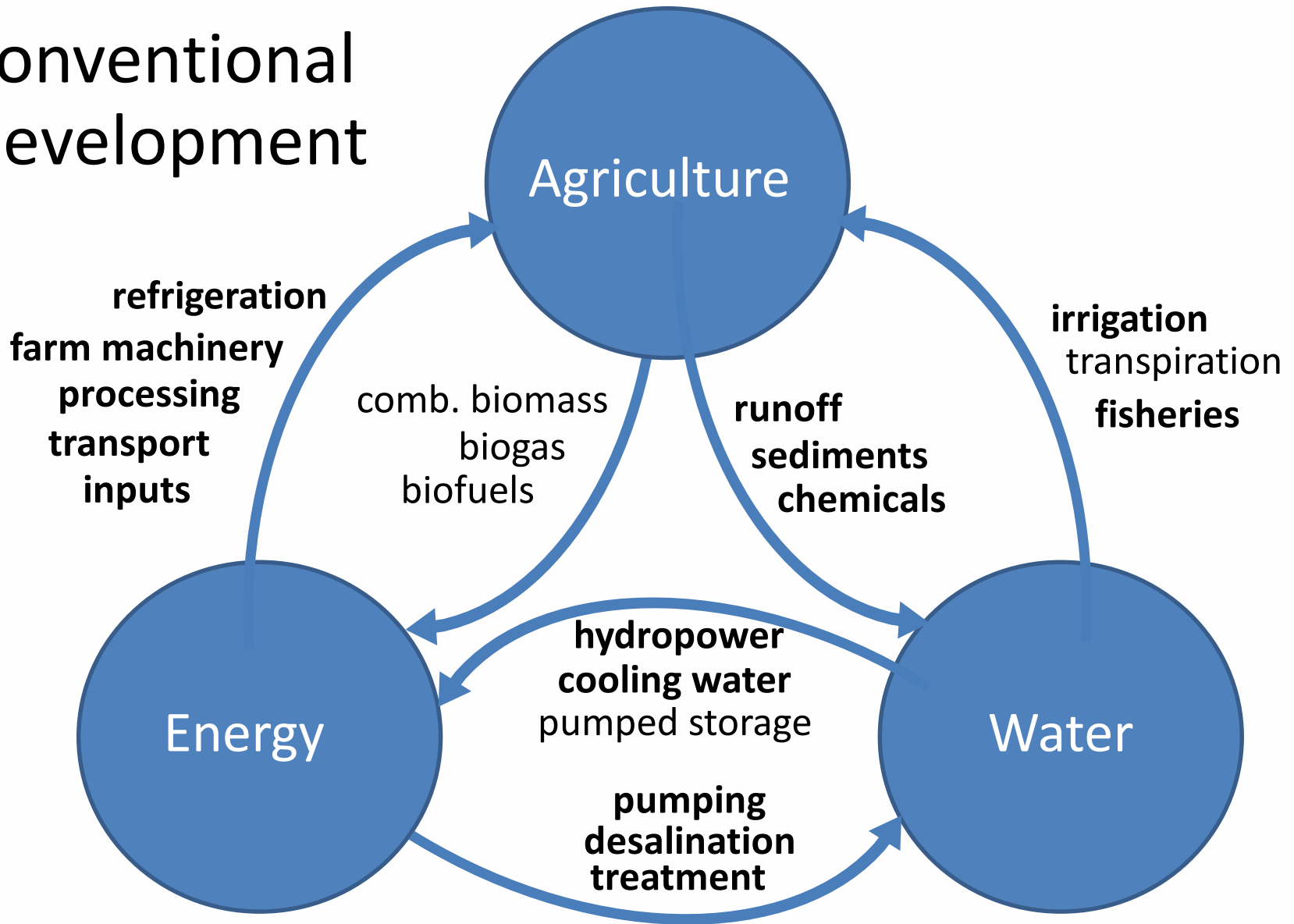
- Countries face tightening resource constraints
- These are exacerbated by climate change:
 - Tighter constraints
 - More variable/changing constraints
- So, limiting factors may:
 - Increase in number
 - Vary from one planning cycle to the next

water-energy-food links

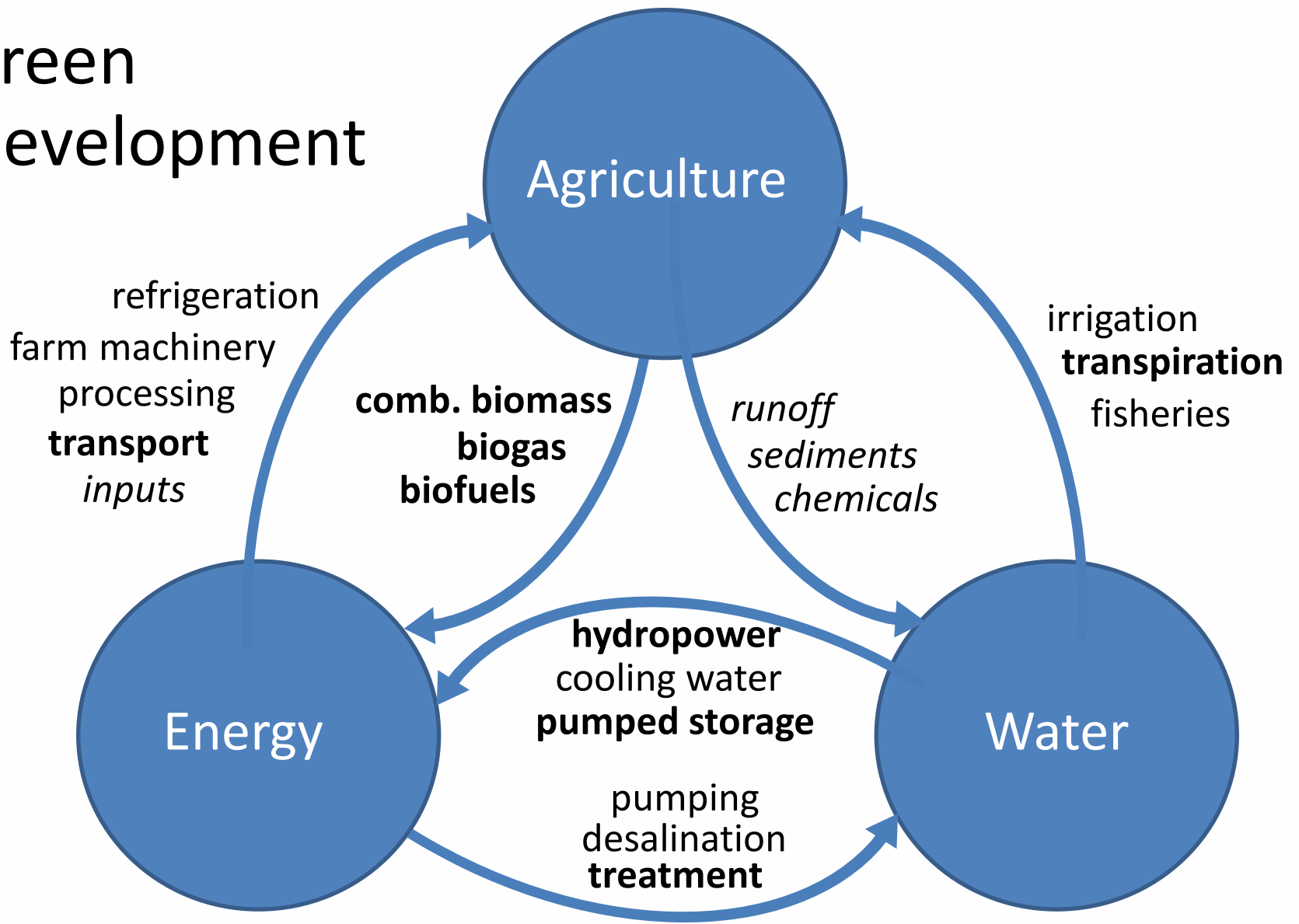


DEVELOPMENT

conventional development

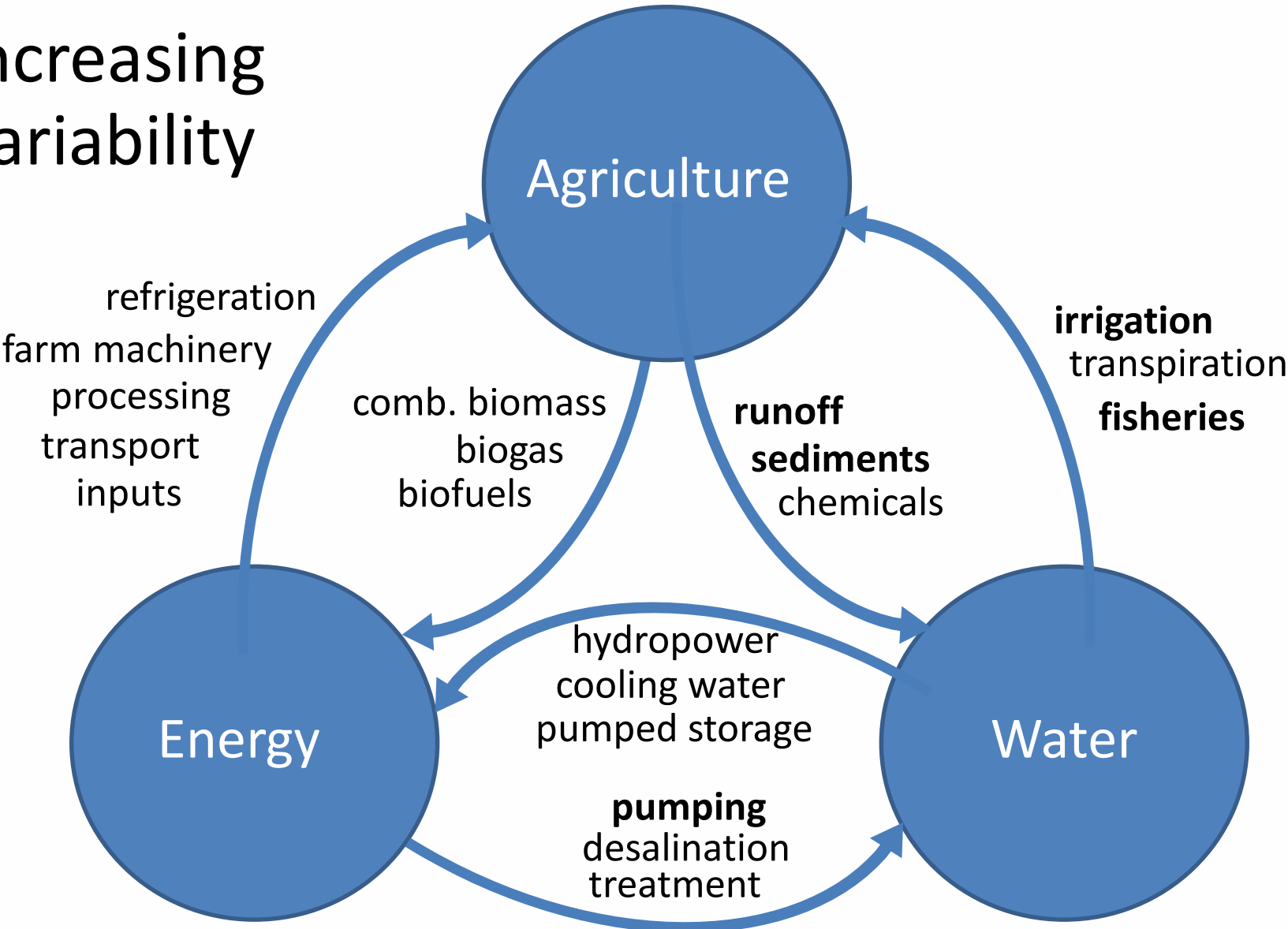


green development

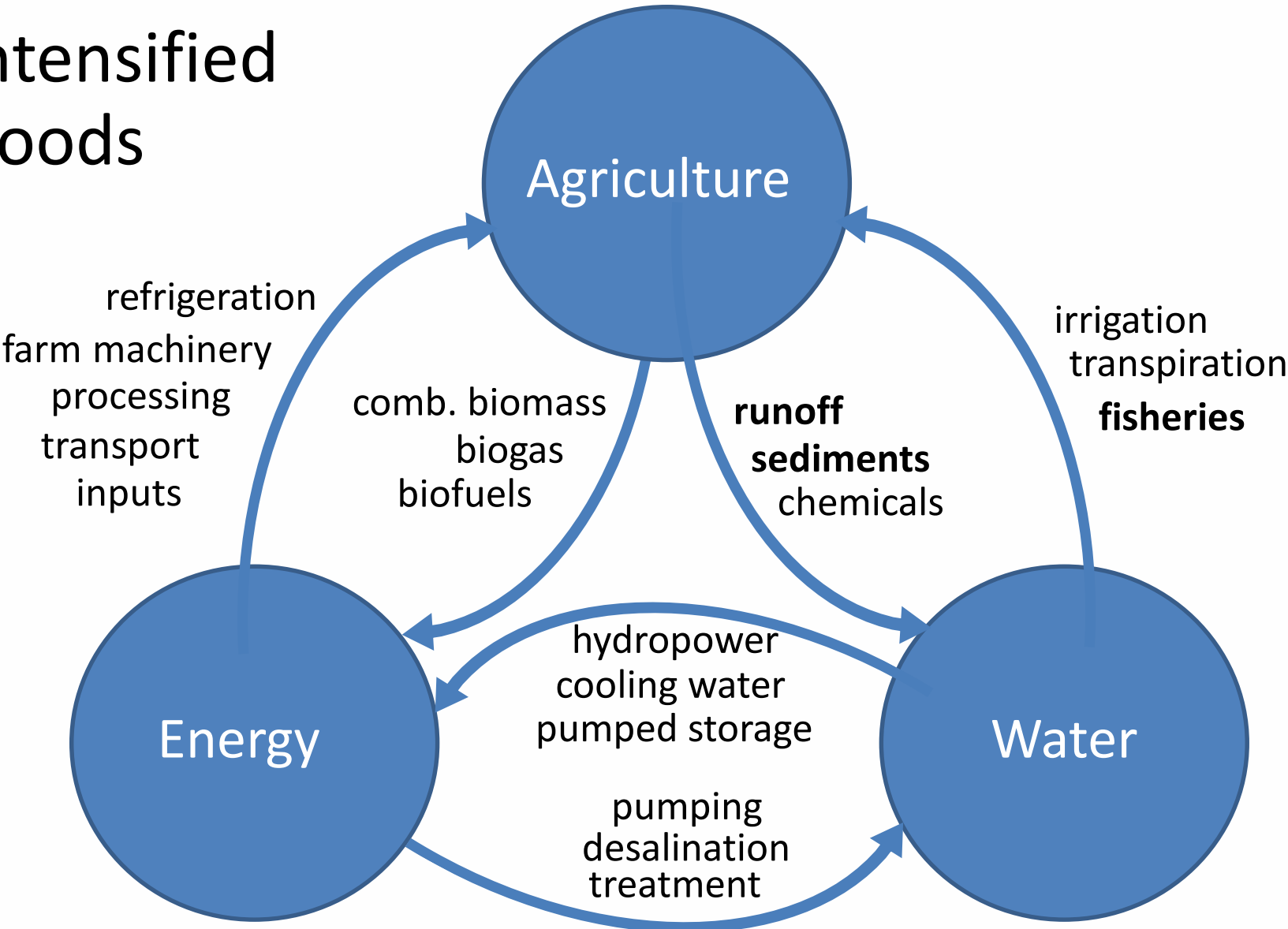


CLIMATE IMPACTS

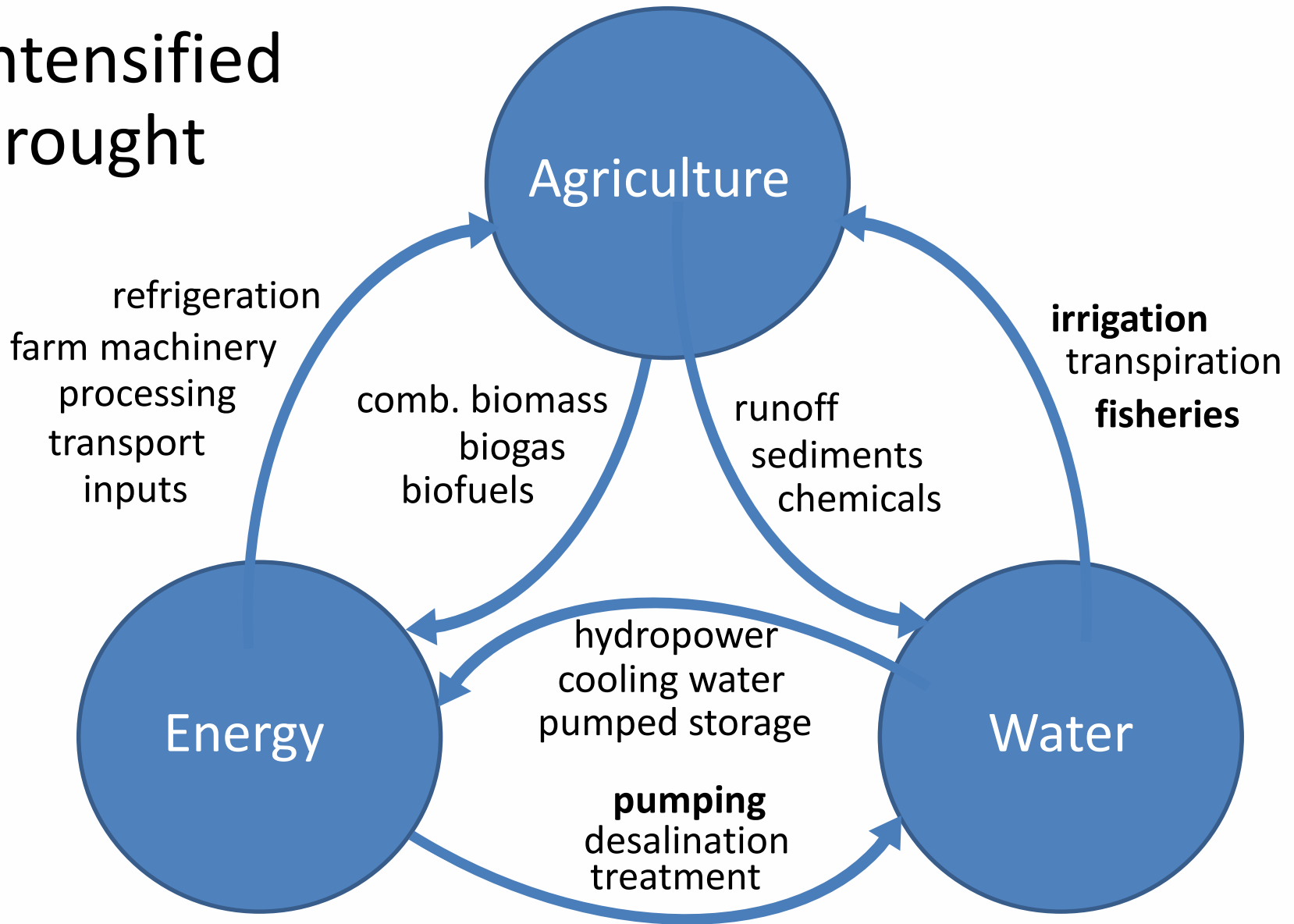
increasing
variability



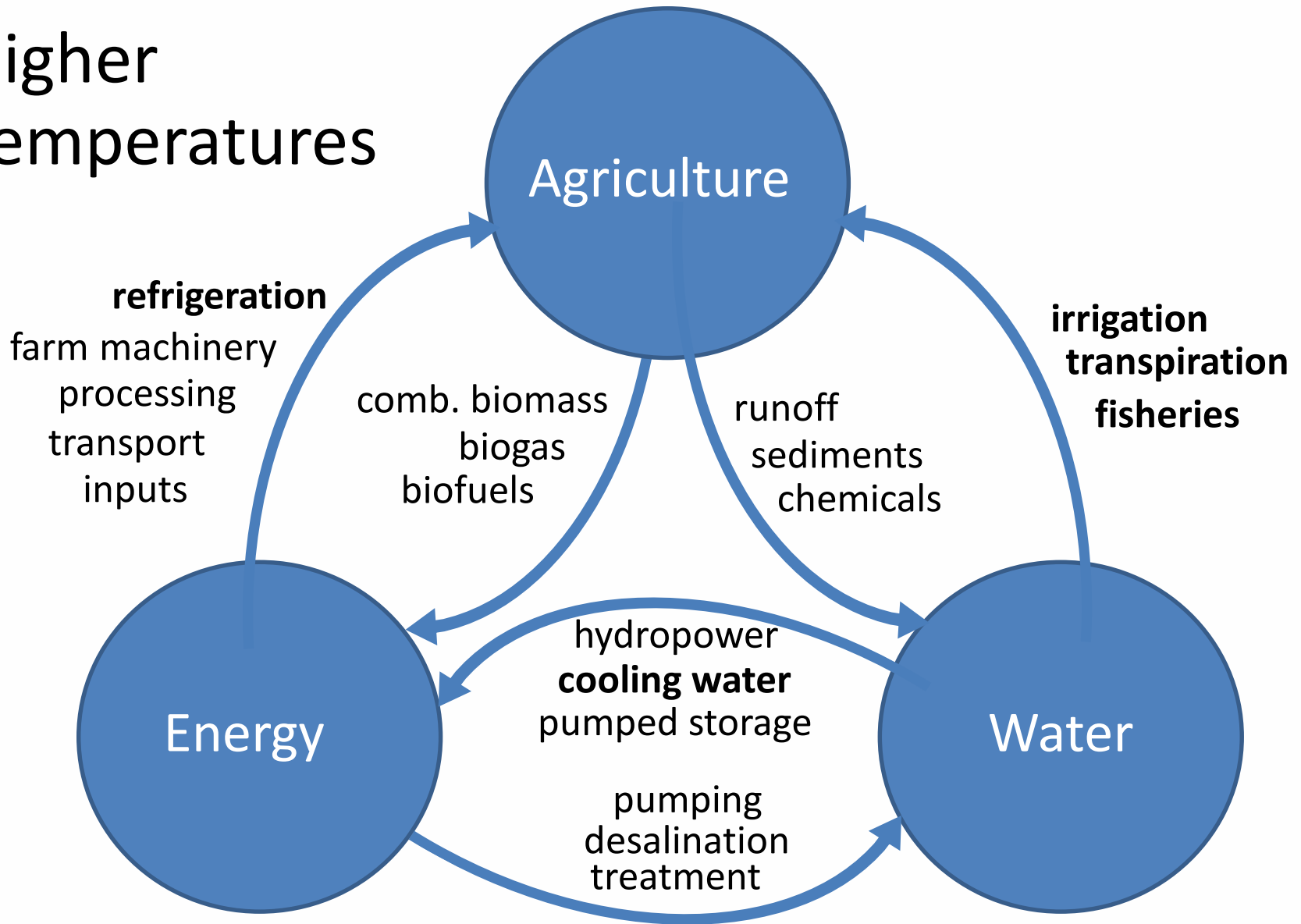
intensified floods



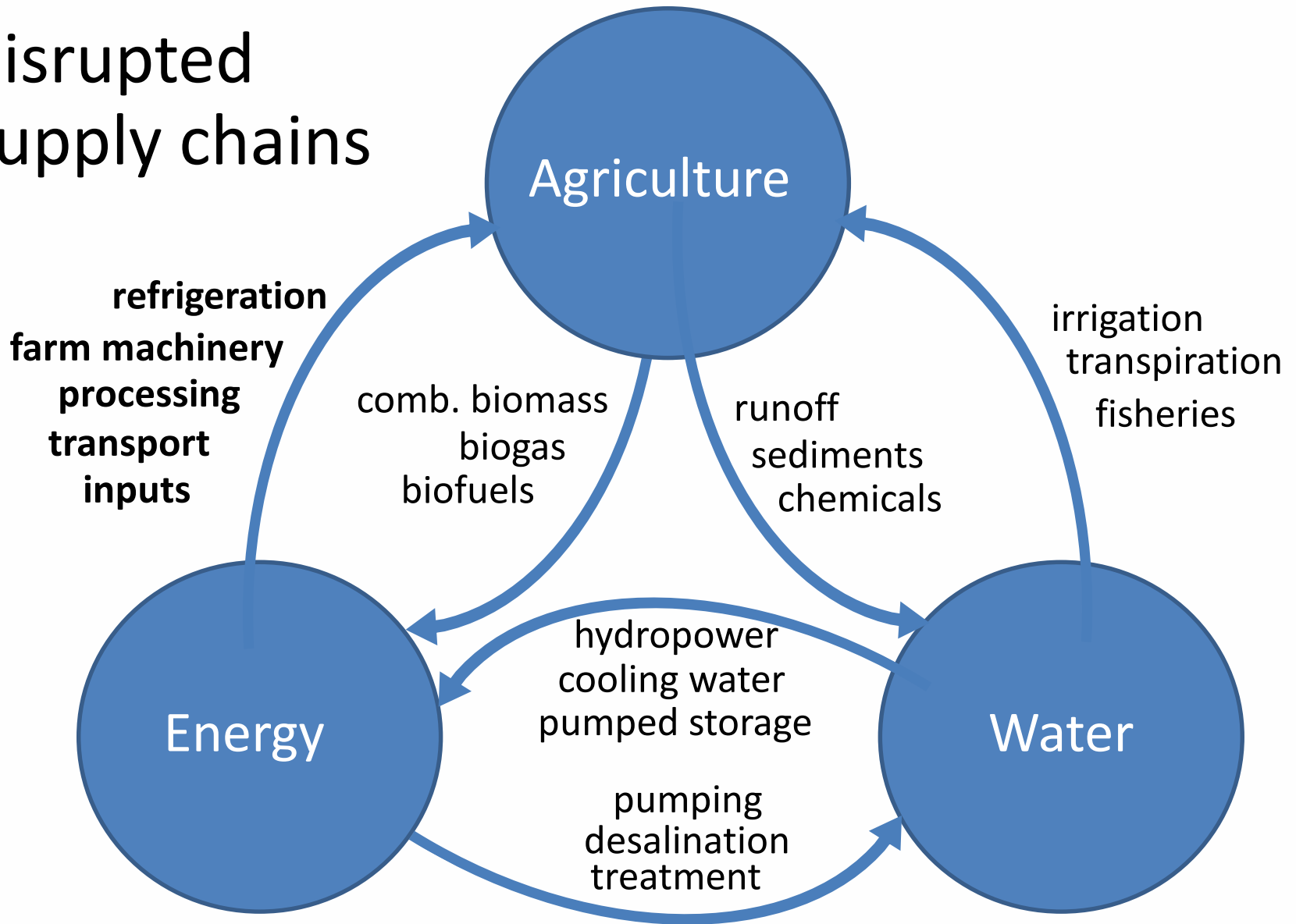
intensified drought



higher
temperatures

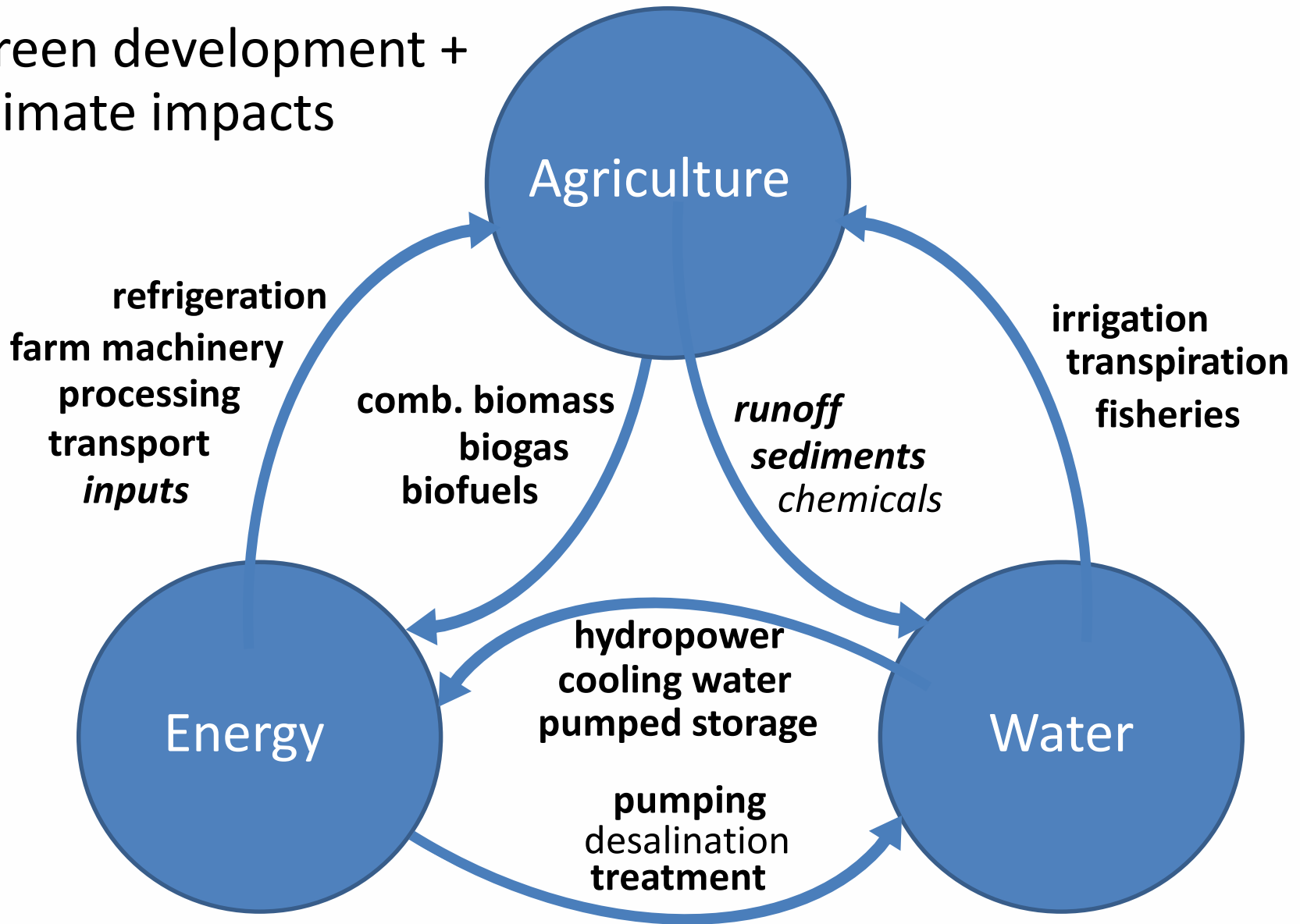


disrupted supply chains



DEVELOPMENT UNDER CLIMATE CHANGE

green development +
climate impacts



Final Remarks

- Links between water, food, and energy systems face rising constraints in the course of development
- Green development can help to relieve some of those constraints, but increase others
- Climate change can impact upon several of those links – green development then becomes an adaptation strategy, but further adaptive measures will likely be necessary