



Water-Energy Nexus in the

Americas



Urban & agricultural adaptation



Water-energy adaptation

Eco- and land system adaptation



Regional ↔ Global?

Challenges □

(some, not all, shared regionally) □

- energy insecurity □
- freshwater scarcity □
- shifting demographics □
- globalized markets □
- climate change □

Global change drivers

- urbanization □
- land use change □
- economic globalization □
- hydro-climate non-stationarity □

Regional adaptive responses

- planning under uncertainty □
- science & policy co-production □
- water, energy demand management; adaptive infrastructure □
- ecosystem restoration □

Implications and impacts □

- societal vulnerability □
- threatened, impaired ecosystems □
- earth-system resilience destabilized □

Regional ↔ Global?

NEXO AGUA ENERGIA

Energía para Agua

Extraction y
transmision

Tratamiento de agua
potable o industrial

Energía asociado al
uso del agua

Tratamiento aguas
servidas

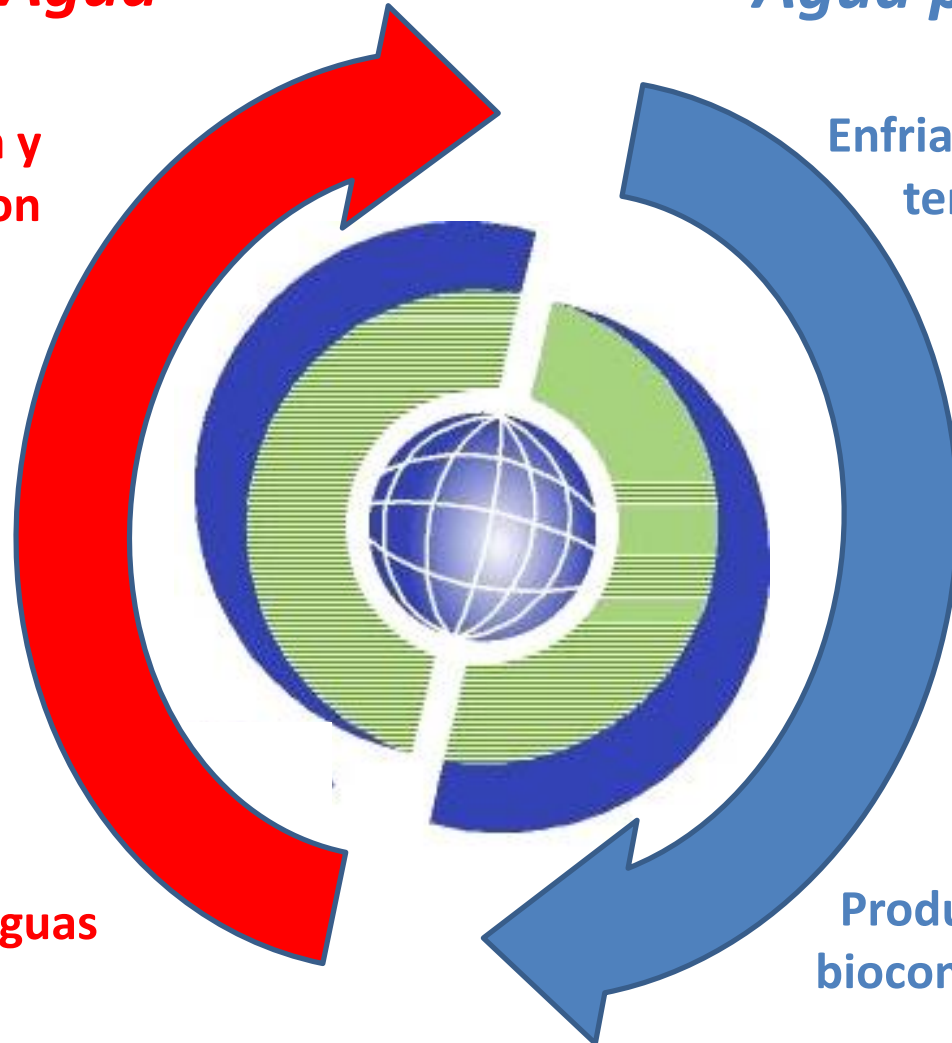
Agua para Energía

Enfriamiento centrales
termoeléctricas

Hidroeléctricidad

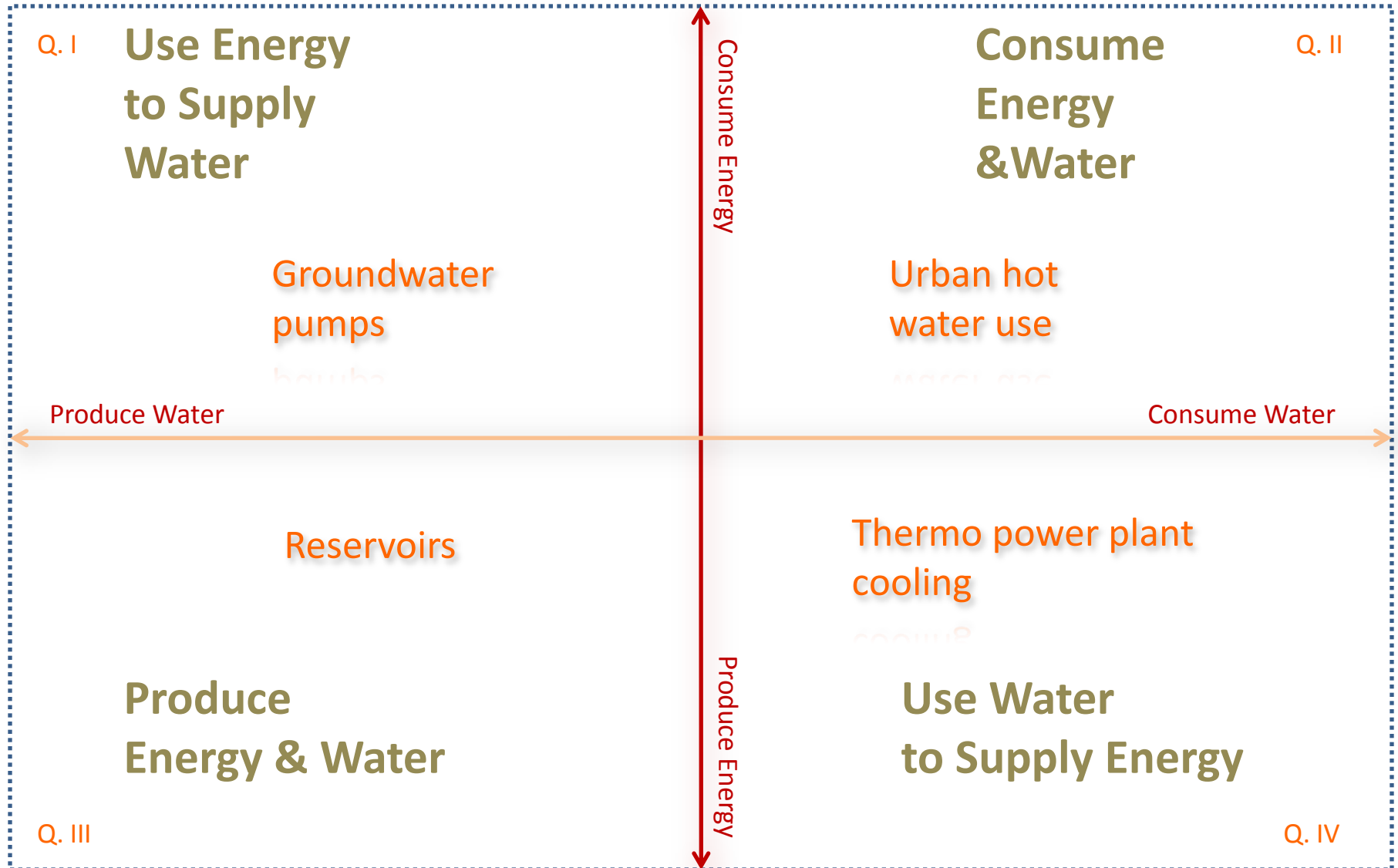
Extracción y
refinamiento

Producción de
biocombustibles

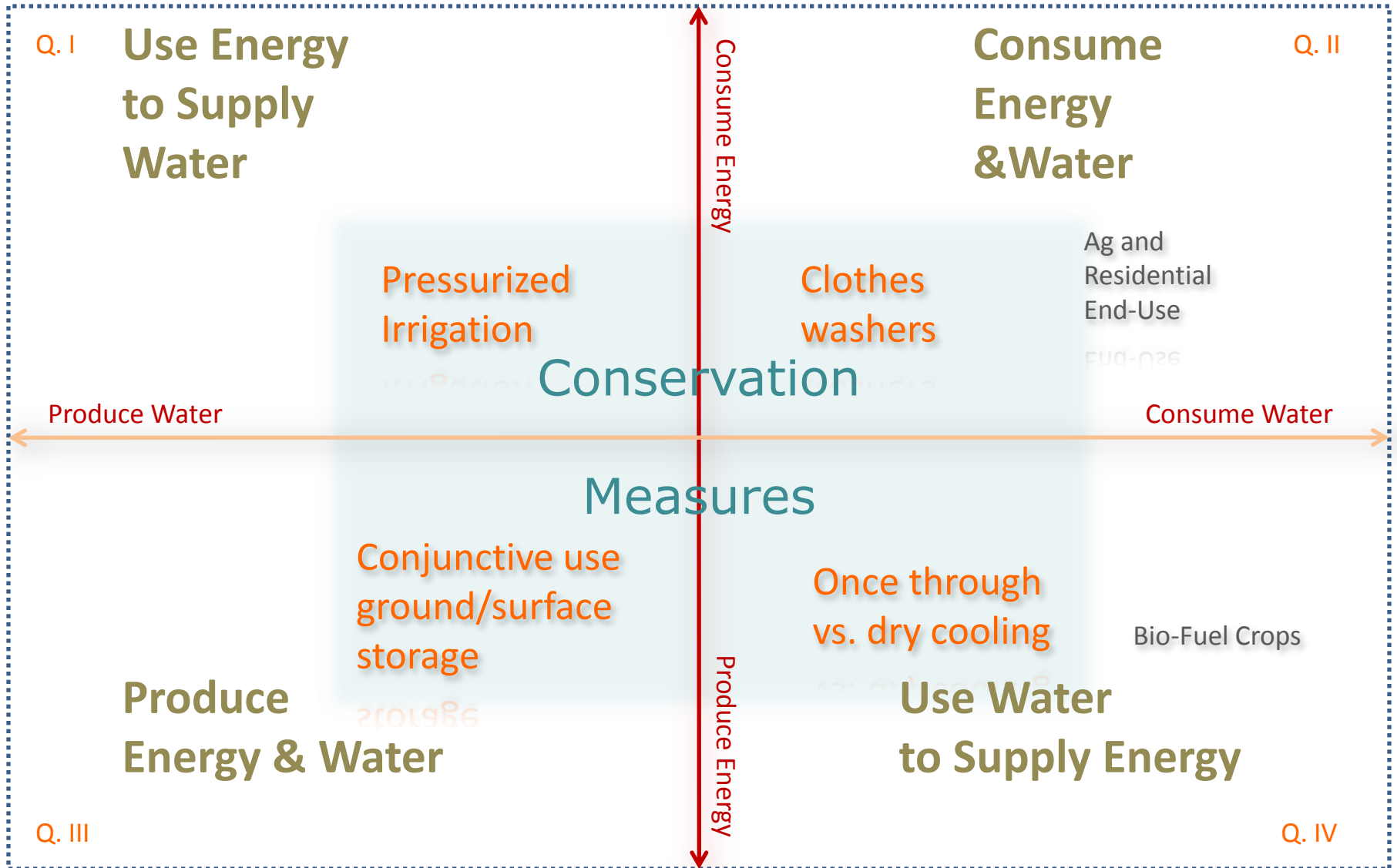


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Water-Energy Interactions



Water-Energy Conservation



Climate Adaptation

