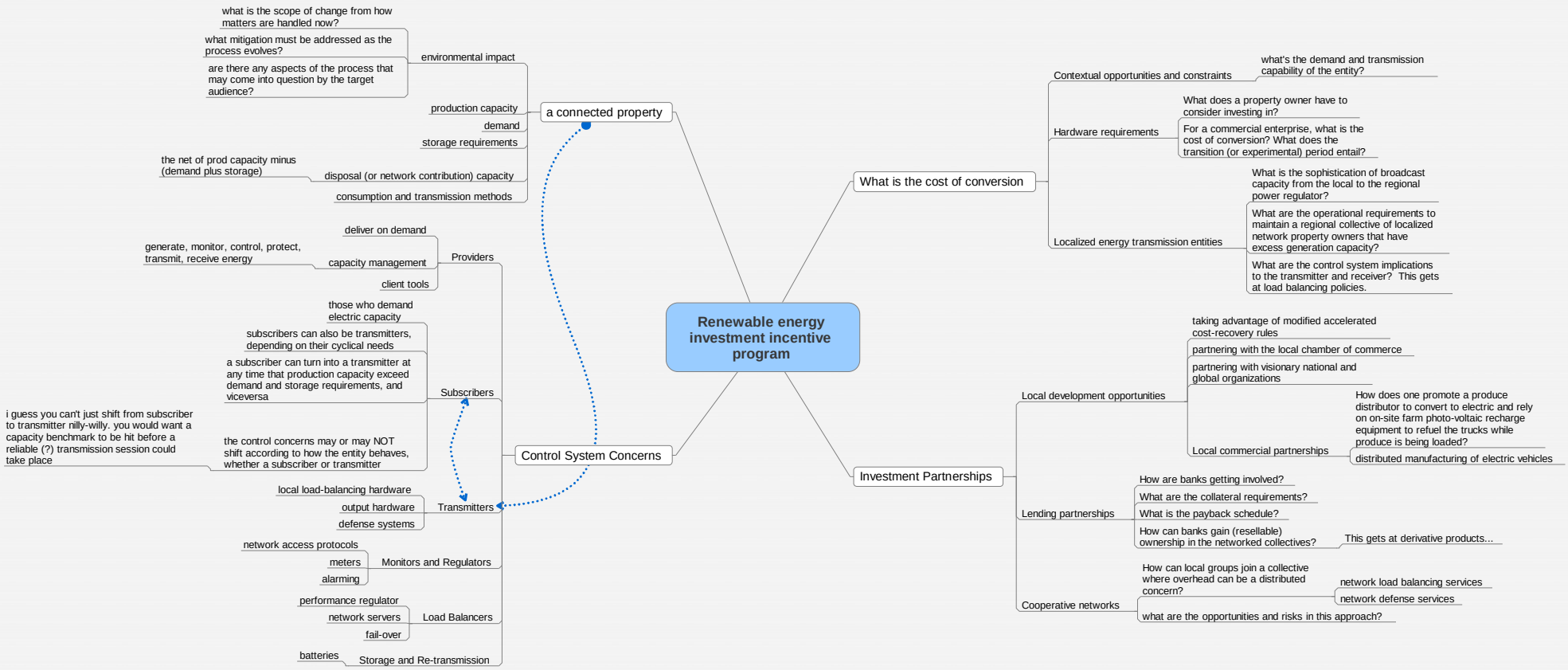
Renewable energy investment incentive program
a connected property
environmental impact
what is the scope of change from how matters are handled now?
what mitigation must be addressed as the process evolves?
are there any aspects of the process that may come into question by the target audience?
production capacity
demand
storage requirements
disposal (or network contribution) capacity
the net of prod capacity minus (demand plus storage)
consumption and transmission methods
Control System Concerns
Providers
deliver on demand
capacity management
generate, monitor, control, protect, transmit, receive energy
client tools
Subscribers
those who demand electric capacity
subscribers can also be transmitters, depending on their cyclical needs
a subscriber can turn into a transmitter at any time that production capacity exceed demand and storage requirements, and viceversa
the control concerns may or may NOT shift according to how the entity behaves, whether a subscriber or transmitter
i guess you can't just shift from subscriber to transmitter nilly-willy. you would want a capacity benchmark to be hit before a reliable (?) transmission session could take place
Transmitters
local load-balancing hardware
output hardware
defense systems
Monitors and Regulators
network access protocols
meters
alarming
Load Balancers
performance regulator
network servers
fail-over
Storage and Re-transmission
batteries
What is the cost of conversion
Contextual opportunities and constraints
what's the demand and transmission capability of the entity?
Hardware requirements
What does a property owner have to consider investing in?
For a commercial enterprise, what is the cost of conversion? What does the transition (or experimental) period entail?
Localized energy transmission entities
What is the sophistication of broadcast capacity from the local to the regional power regulator?
What are the operational requirements to maintain a regional collective of localized network property owners that have excess generation capacity?
What are the control system implications to the transmitter and receiver? This gets at load balancing policies.
Investment Partnerships
Local development opportunities
taking advantage of modified accelerated cost-recovery rules
partnering with the local chamber of commerce
partnering with visionary national and global organizations
Local commercial partnerships
How does one promote a produce distributor to convert to electric and rely on on-site farm photo-voltaic recharge equipment to refuel the trucks while produce is being loaded?
distributed manufacturing of electric vehicles
Lending partnerships
How are banks getting involved?
What are the collateral requirements?
What is the payback schedule?
How can banks gain (resellable) ownership in the networked collectives?
This gets at derivative products...
Cooperative networks
How can local groups join a collective where overhead can be a distributed concern?
network load balancing services
network defense services
what are the opportunities and risks in this approach?