Part I - material flows

KRIPSI diagrams like figs 7.1,7.2

Do for Examples A-C Link + KLEMS database? Issues:

- Why include?
 - Economyis moderal
- Introduce examples A,B,L
- Introduce Anto inclustry productor as a case study.
- Oil and coal : S. Ror E? I think Ratthis point
- Switch to Elater! - Include Q(waste Lent)? No > not a material
- Write material balance egns? No. No+ helpful. Maybe Lorz.
- What about Ezy (and others)? Burdle into Rzy or 534

Part II - Energy Flows
- Energy diegs like Fig 5.1,6.1,etc.
- Extract energy flows from matil diagrams. Every becomes the focus.

- Add Q
- some R are E flows.
- derive 1st Law, Total Energy, embodied energy egns
- Don't link to X yet -- Link to BEA data from Becky?
- Dotor Examples A, B, and C.
- Include Society (2) in the egns.

Part III Currency and value flows.

- Leverage MKH notes from 24 JUly 2013
- Do for Examples A, B, C
- Link to BEA and Bocky's work
- Address . value creation (value add)
 . Inflation (Fed) and need for million adjusted currency flows
- Include both x and i diagrams.
- 155 m:
 - If BFA already accounts for upstream inputs, is that compatible with matrix invexion approach?

Part IV - Energy Intensity

- link Part II lenergy) with Part III (currency and ralue) to derive energy intensity formulation (Es)

energy us. E. Canq distinguish.

Part I - Implications

- · Accumulation of embodied energy vs. E. Cant distinguish.
- · dB/dt is an error term.
- · Energy Quantification (thrond, exergy, useful work)
- · Boundaries
- . etc.
- Use Example of auto production throughout
 - What of knowledge?
 - -increase efficiency?
 - Lecrease waste?
 - · reduce material in P to accomplish same ends?