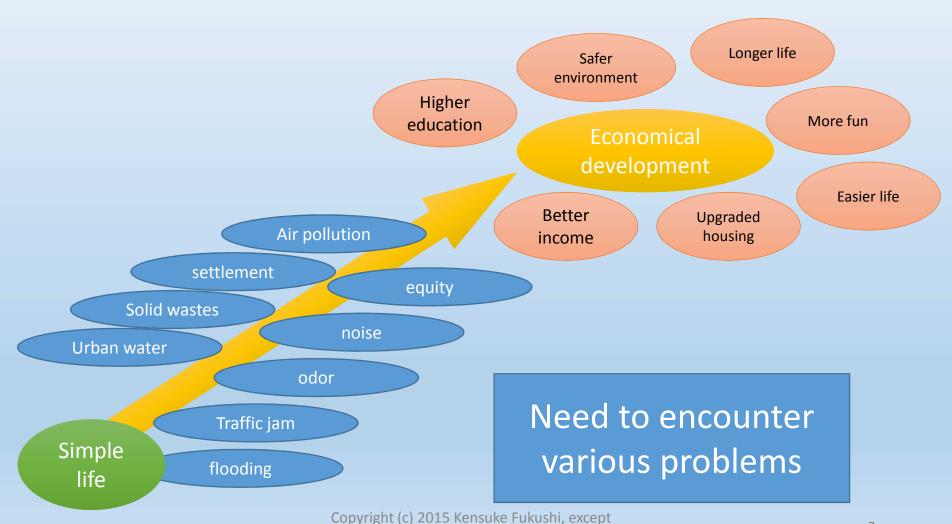


Roots of "Sustainability Science"

Sustainable Development

"development that meets the needs of the present without compromising the ability of future generations to meet their own needs"

Many hopes, but many problems

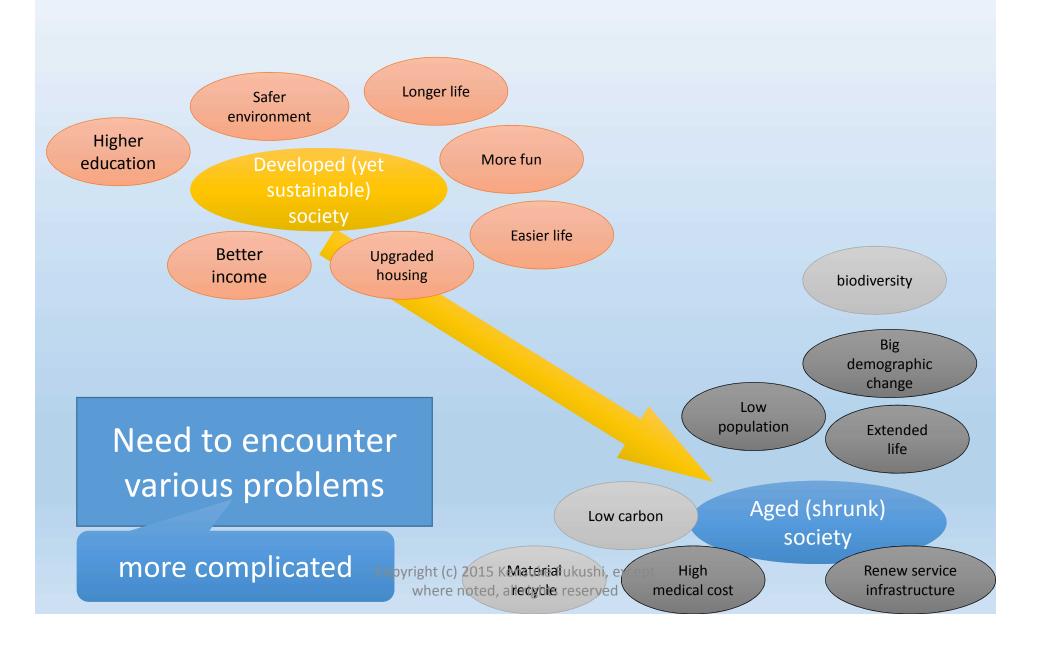


Global changes

- Climate change
- Biodiversity
- Wide area pollution
- Global market
- Global mobility
- Demographic change

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Many problems, some hopes

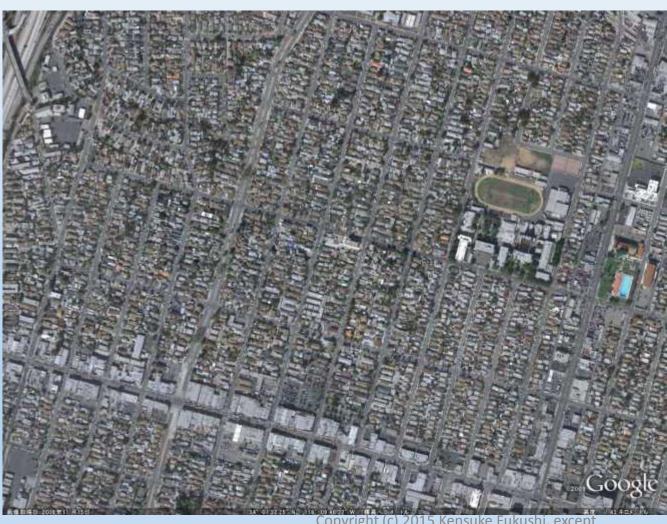


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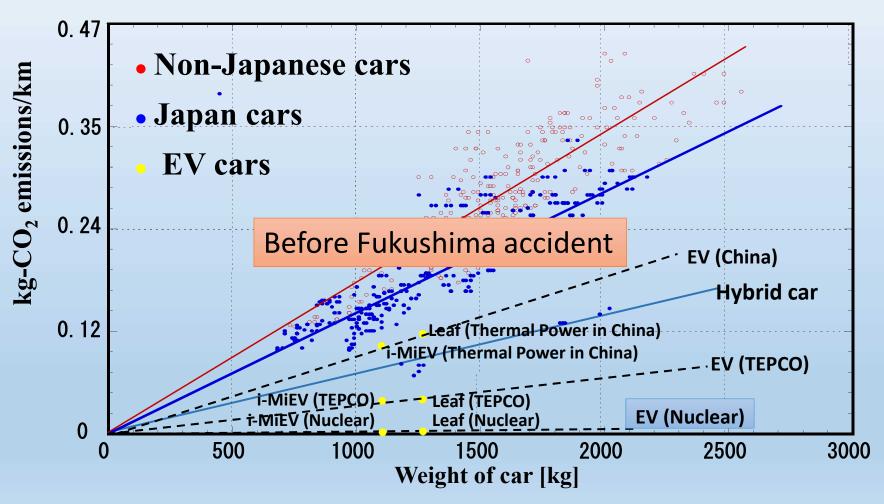
Too late for decarbonization?



Yes by train

Well, no by EV with Nuclear Power

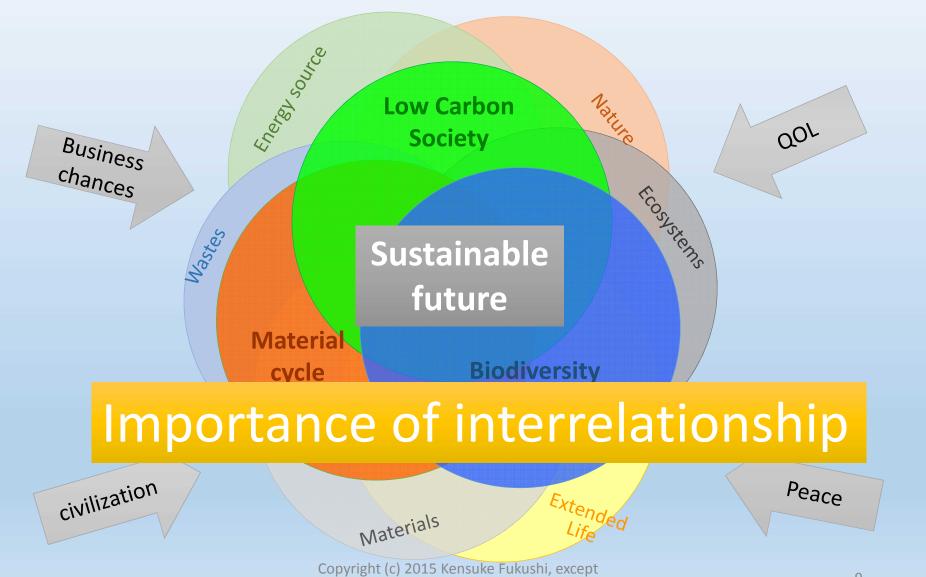
Emission of CO₂ from cars



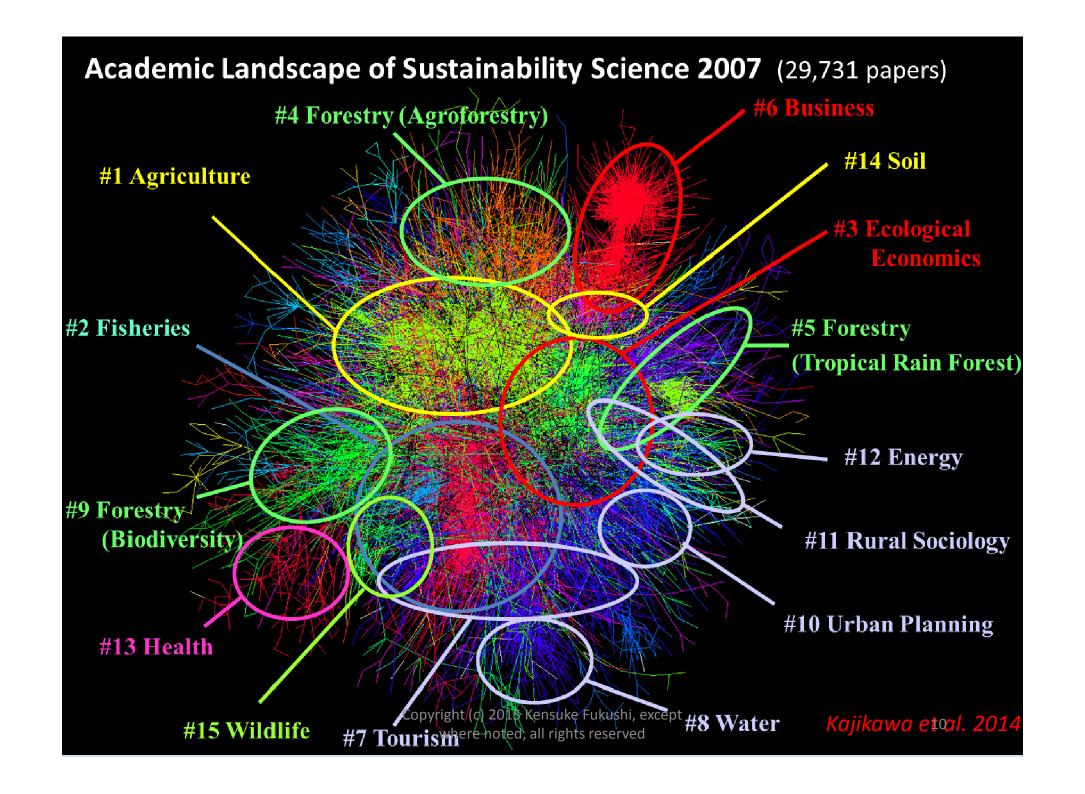
Solution for LA for decarbonized society

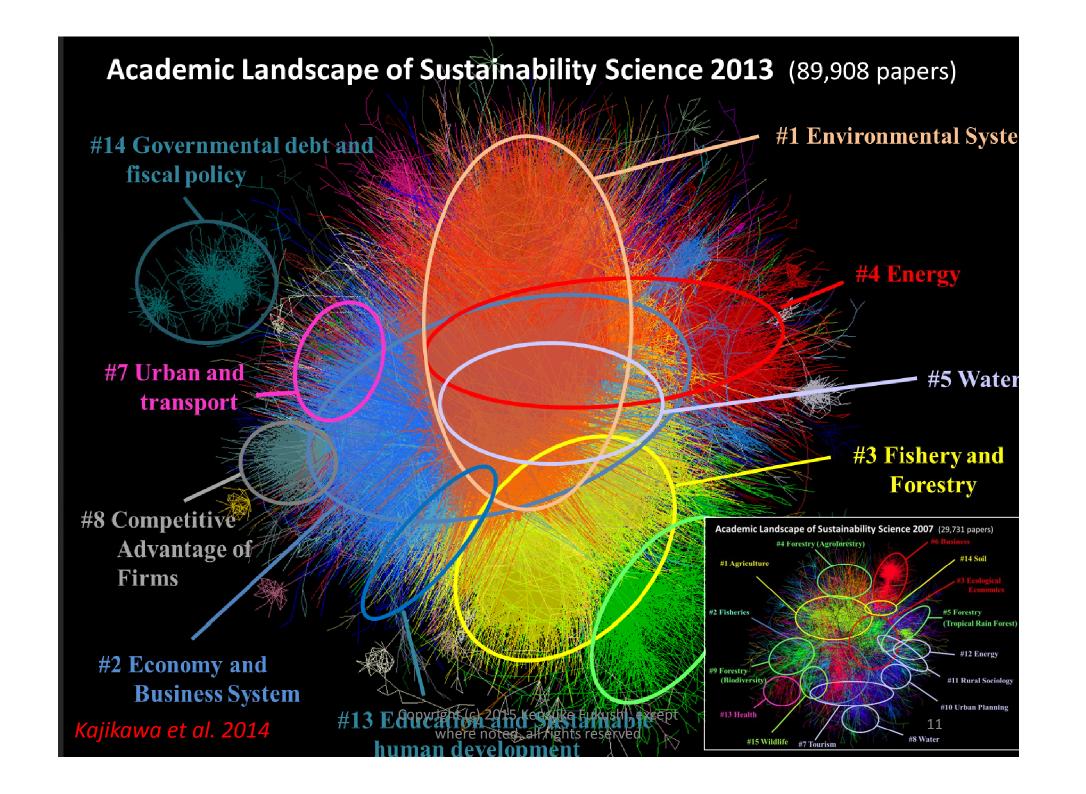
Modified from Vision 2050 (Komiyama, 2005)

Multi-faced problems and solutions



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