COMPLEX TIME: Adaptation, Aging, Arrow of Time

2017 - 2022

Amy P. Chen Program Manager

James S. McDonnell Foundation





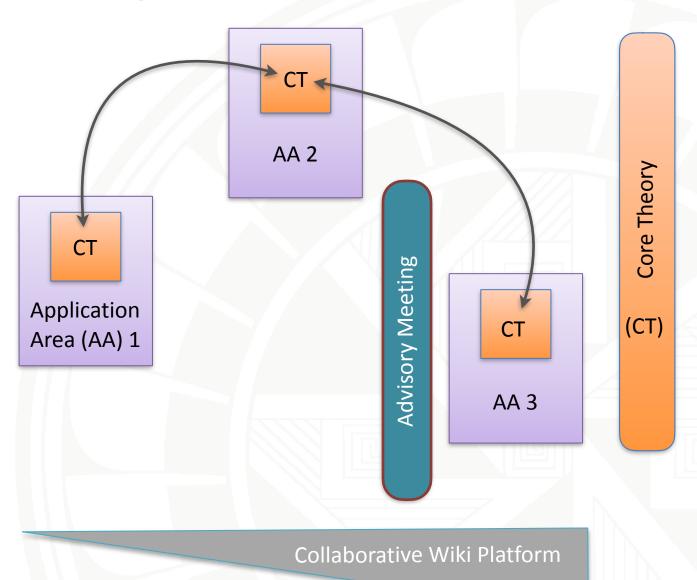
"Complex Time"

Connected subcomponent time progression & time scale in a complex adaptive system.



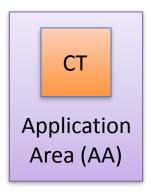
Program Structure

General Conference



General Conference

- Provide overview of related fields
- Identify problems for investigation



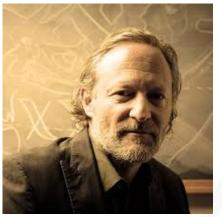
Form novel, strong collaborative networks capable of significantly advancing research on core topics:

- Based on phenomena related to AAA with strong supporting empirical data & evidences
- Development &/or application of complexity science framework, models, tools to transform understanding
- Suggestion for intervening & controlling the system to minimize/ circumvent loss of structure, order, function

Consolidation of data sets & tools

Core Theory (CT)

Advisory Board





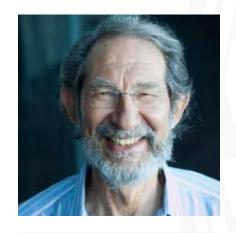


David Krakauer

Jennifer Dunne

Susan Fitzpatrick

Jessica Flack



Geoffrey West



Sean Carroll



Sri Iyer-Biswas

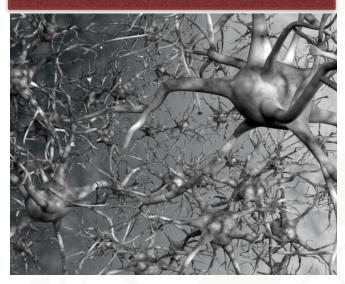


Eric Maskin

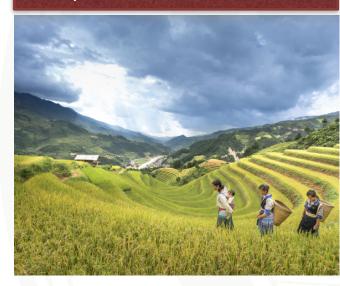
Planned

Application Area (AA)

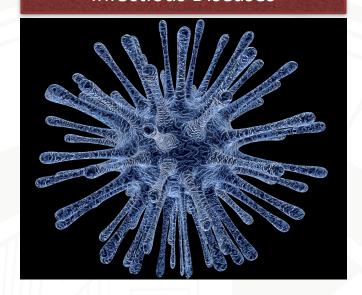




Population & Environment



Infectious Diseases



Human Aging



Sleep & Aging



Aging of Single-cells



Planned

Application Area (AA)

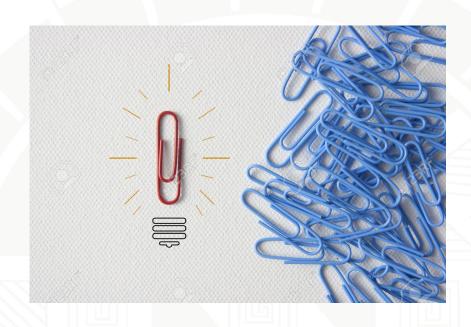
Ecological Irreversibility



Hallmarks of Bio Failure



Interests in, or ideas for, Application Area working groups?



Synergistic activities/initiatives/individual?

Collaborative MediaWiki Platform

Santa Fe Institute Collaboration Platform

A hub for continuity & synthesis across program:

- Continued collaboration beyond time spent in meeting
- Linkage of Application Areas
- References, data, code sharing



https://centre.santafe.edu/complextime/

Collaborative MediaWiki Platform

Santa Fe Institute Collaboration Platform

In your inbox -

Subject line: SFI Complex Time wiki



3/15/18