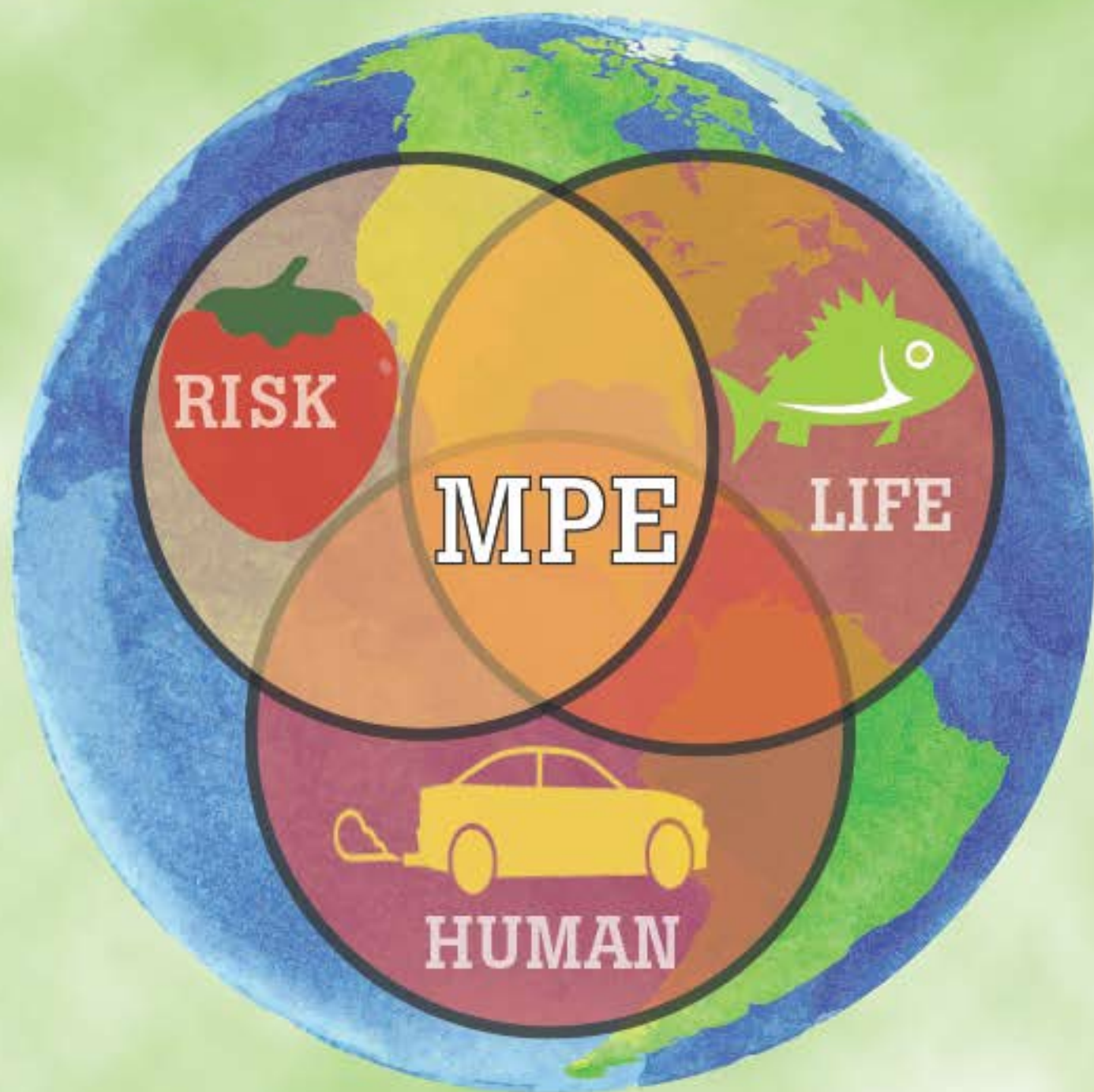# Mathematics of Planet Earth Explained

*Mathematics of Planet Earth views our planet through these themes:*

- Planet Earth as a **physical system**: e.g., climate dynamics, oceans, atmosphere, cryosphere, Earth, and space

- Planet Earth as a **system supporting life**: e.g., mathematical ecology, carbon cycle, food systems, natural resources, and sustainability

- Planet Earth as a **system organized by humans**: e.g., land use, energy, communication, transportation, and socio–economics

- Planet Earth as a **system at risk**: e.g., global change, biodiversity, water, food security, epidemics, and extreme events



The **SIAM Activity Group on Mathematics of Planet Earth** (SIAG/MPE) provides a forum for mathematicians and computational scientists to study our planet, its life-supporting capacity, and the impact of human activities.

## Join the SIAG!

http://www.siam.org/activity/mpe/