Modulators

- **Vegetation (fuel)**
- Total fuel load
- Fuel load by size class
- Structure

Biomass

- Vertical arrangement Horizontal connectivity
- Fire weather Ignitions

Context

- Environmental e.g., long-term drought
- Management
- e.g., logging or grazing
- Social

e.g., fire policy

Core parameters

- Fire characteristics
- Fire type (vegetation layer) Intensity (energy release)
- Temporal distribution
 - Frequency (return interval)

Seasonality

- **Duration of heating**
- Spatial pattern
 - Extent (total burn area) Shape (length vs. breadth)
 - Location & number of
 - ignitions Completeness of burn (patchiness)

Effects

Direct Physical severity

- Heating depth Soil structure & nutrients
- Biological severity (mortality)
- Social & economic severity



Indirect

- Community succession Growth conditions
 - Wildlife habitat
- Physical conditions
 - Aquatic environment
- Weather & climate
 - Landscape planning & fire management policy