

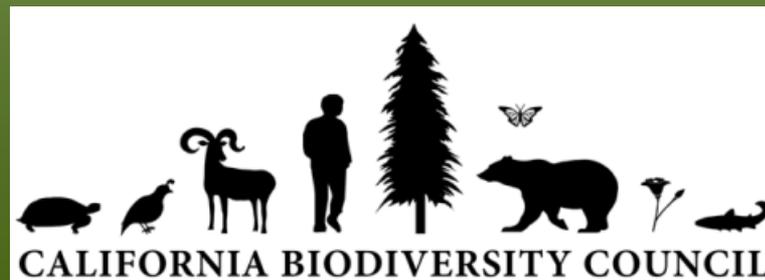
# California Biodiversity Council Collaborative Project on California Indicators

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# California Biodiversity Council (CBC)

The California Biodiversity Council (CBC) was formed in 1991 to improve coordination and cooperation between the various resource management and environmental protection organizations at federal, state, and local levels.

Strengthening ties between local communities and governments has been a focus of the Council by way of promoting strong local leadership and encouraging comprehensive solutions to regional issues.

For additional information on CBC:

<http://ucanr.edu/sites/CBC>



# CBC Indicators Working Group

The goal of the Indicators working group is to coordinate the development and use of indicator systems used by CBC partners in major planning and assessment programs:

CAL FIRE – Forest and Range Assessment

DWR – State Water Plan

DFW – State Wildlife Action Plan

USFS – Regional Plans and National Forest Plans

CANRA – Ecological Performance Measures

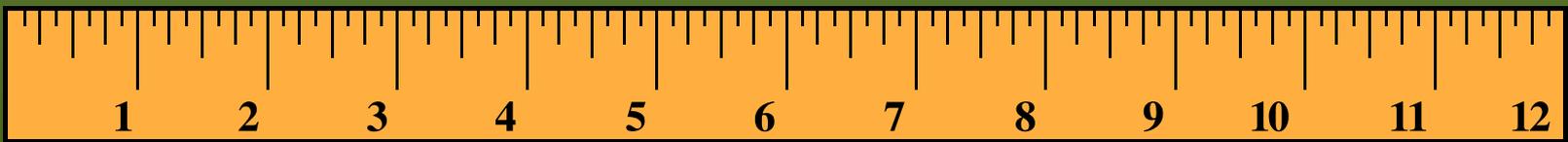


# Benefits of Collaboration:

- Increased acceptance of indicator as valid description of sustainability
- Reduction in duplication of effort – no more inventing the wheel

And most importantly...

- Leveraging resources to facilitate adaptive management
  - Identifying the best indicator
  - Identifying the best metric
  - Identifying the best monitoring and measuring protocol so data can be shared across agencies



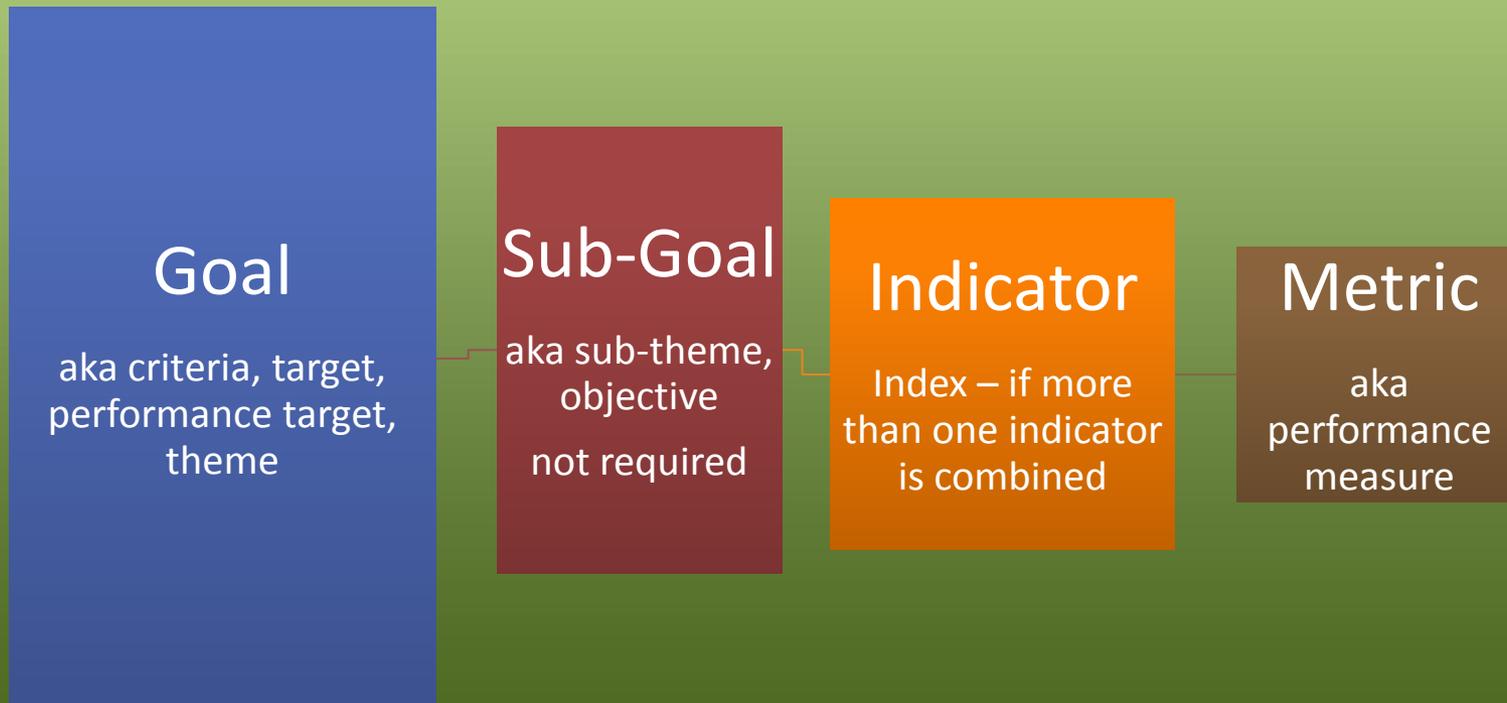
# Challenges of Collaboration:

- Discovering the “Rosetta Stone” to decode all our languages
  - Is criteria the same as goal?
  - What is an indicator?
  - What is a metric?
  - What is a performance measure?
  - Is a metric the same as a performance measure?



# Developing a Common Framework

While our indicator systems vary in terms of language and scale – they all (more or less) share a common structure:

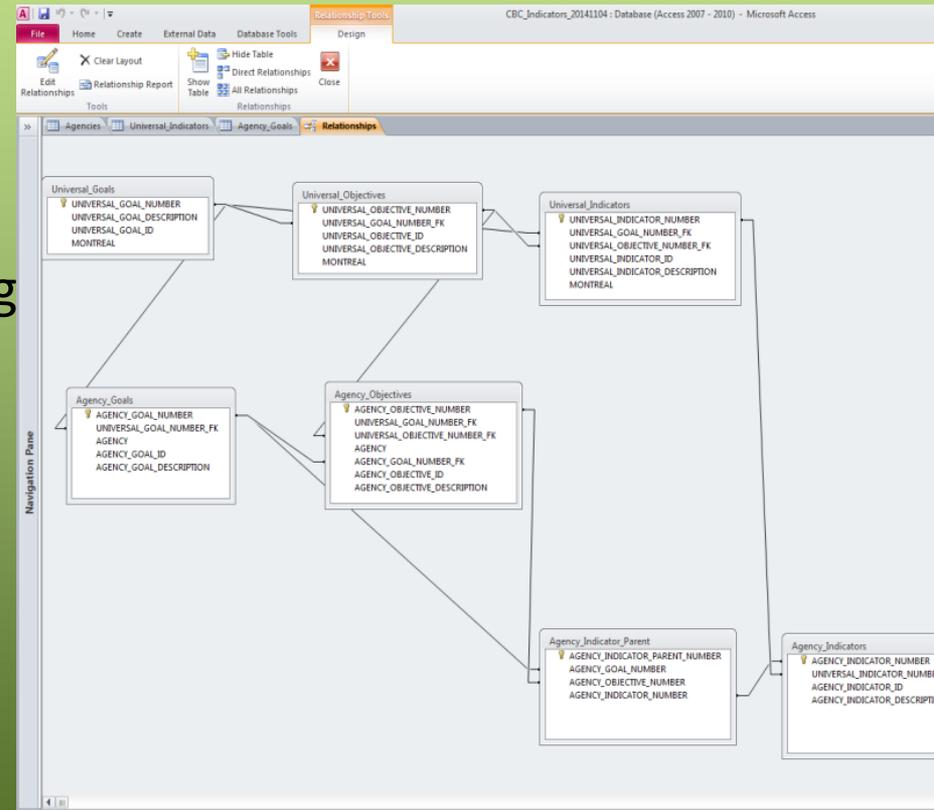


# Developing a Common Framework

The CBC Indicators working group is developing a database structure to relate indicator goals, objectives, indicators, and metrics across programs.

It will:

- Be the Rosetta Stone by establishing a common language between programs. Goals, sub-goals, indicators (compound indexes), metrics .... more?
- Allow users to search by program, goal, indicator, or metric
- Allow comparison between programs through queries

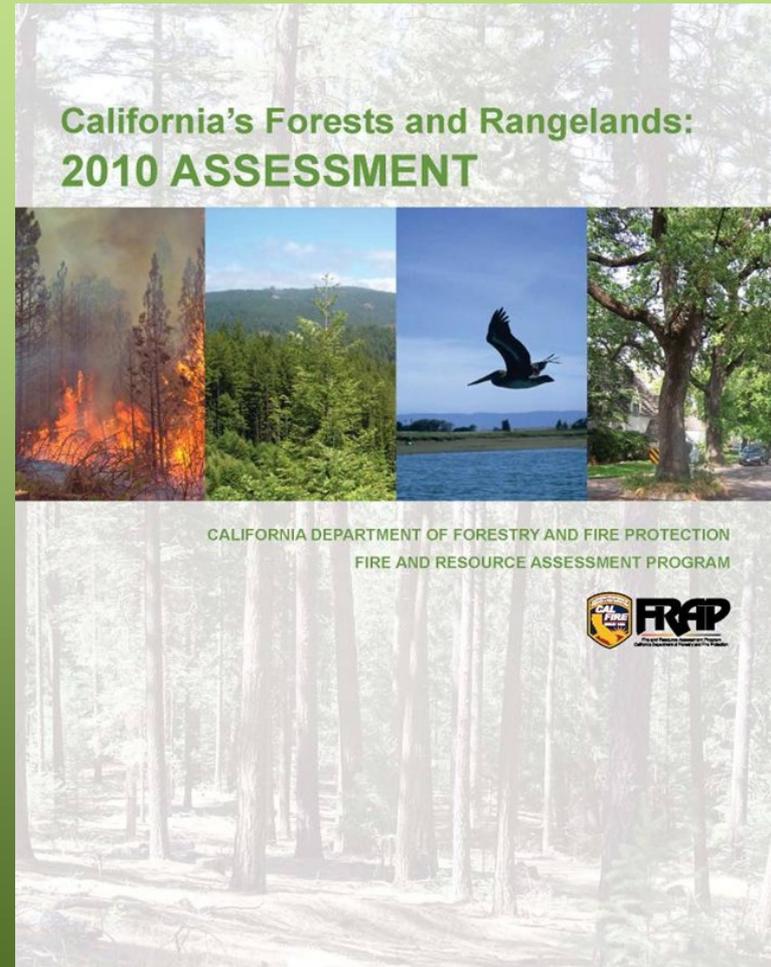


# CAL FIRE

## Forests and Rangelands Assessment

- Forest Assessment Update - 2015
- Sustainable forestry Indicators – follow Montreal Process for framework

<http://www.montrealprocess.org>



<http://http://frap.fire.ca.gov/>

# Example

- **Montreal Criteria and Board of Forestry Goals:**
  - Maintenance of forest contribution to global carbon cycles
  - AB32 goals for the forest sector
- **Assessment Chapter: Climate Change**

**Indicator:**  
Net Carbon  
Sequestration

**Indicator:**  
Snow Pack

**Indicator:**  
Days over 100  
degrees

## **Metrics:**

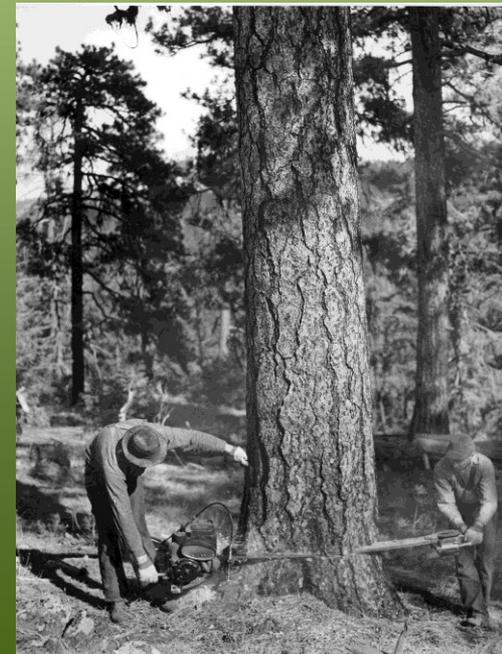
- Carbon Sequestration in Live Trees
- Storage in wood products and landfill
- Emissions from Natural Processes, Harvesting, other management actions

# FRAP Assessment Topics

- Population Growth and Development
- Sustainable Forests
- Rangelands
- Wildfire in Natural Systems
- Forest Pests
- Water Quality and Quantity
- Urban Forestry
- Community Wildfire Threats
- Emerging Markets
- Sustainable Rural Economies
- Wildlife
- Green Infrastructure
- Climate Change

Candidate Forest and Rangeland indicators will be available for public review and comment at:

<http://indicators.ucdavis.edu/forest/>



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