

Windcatcher House, Navajo Nation



Tribal Green Building

A Sustainable Approach to Addressing Energy Efficiency
& Renewable Energy on the Navajo Reservation

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Overview

- Introduction
- Statement of Need
- Community Profile
- Work Plan & Public Involvement
- Implementation
- Assessment & Evaluation
- Conclusion & Recommendations





Introduction

Introduction

- Objective: Convey how NN can learn to plan through green building to address renewable energy development
- Focus: Energy efficiency techniques & renewable energy designs
- Process:
 - Id link between housing & energy
 - Show need for planning & better housing at local level
 - Break down community planning process
 - Break down planning tools through green building and facilitation

Tying Renewable Energy & Green Building Together



Power
Generation

- Distribution
- Transmission

R & D

- Highly technical
- Nerd work

Energy
Efficiency

- Less technical
- People work



Statement of Need

Housing, Utility & Planning

- 18,000 Navajo families do not have access to electricity
- Navajo tribal leadership recognizes the need for planning at the local level
- 110 chapters involved in planning activities at different scales with different degrees of resources, rigor, and purposes
- The Navajo Nation needs to build 34,000 new homes to fill the housing need on the reservation

“Local planning is important since it represents the wishes of community members.”

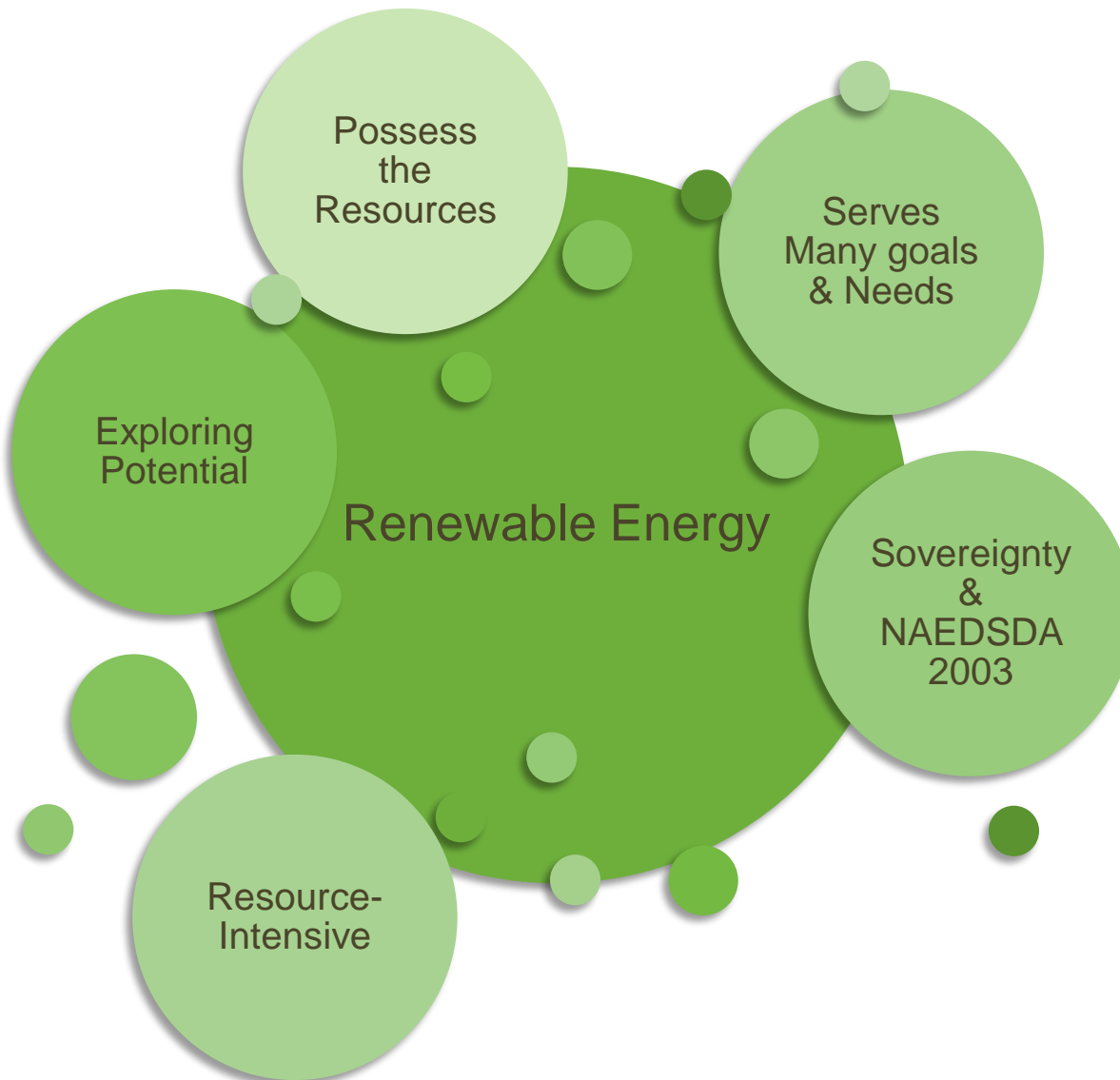


Chapter meeting – Red Rock Chapter House

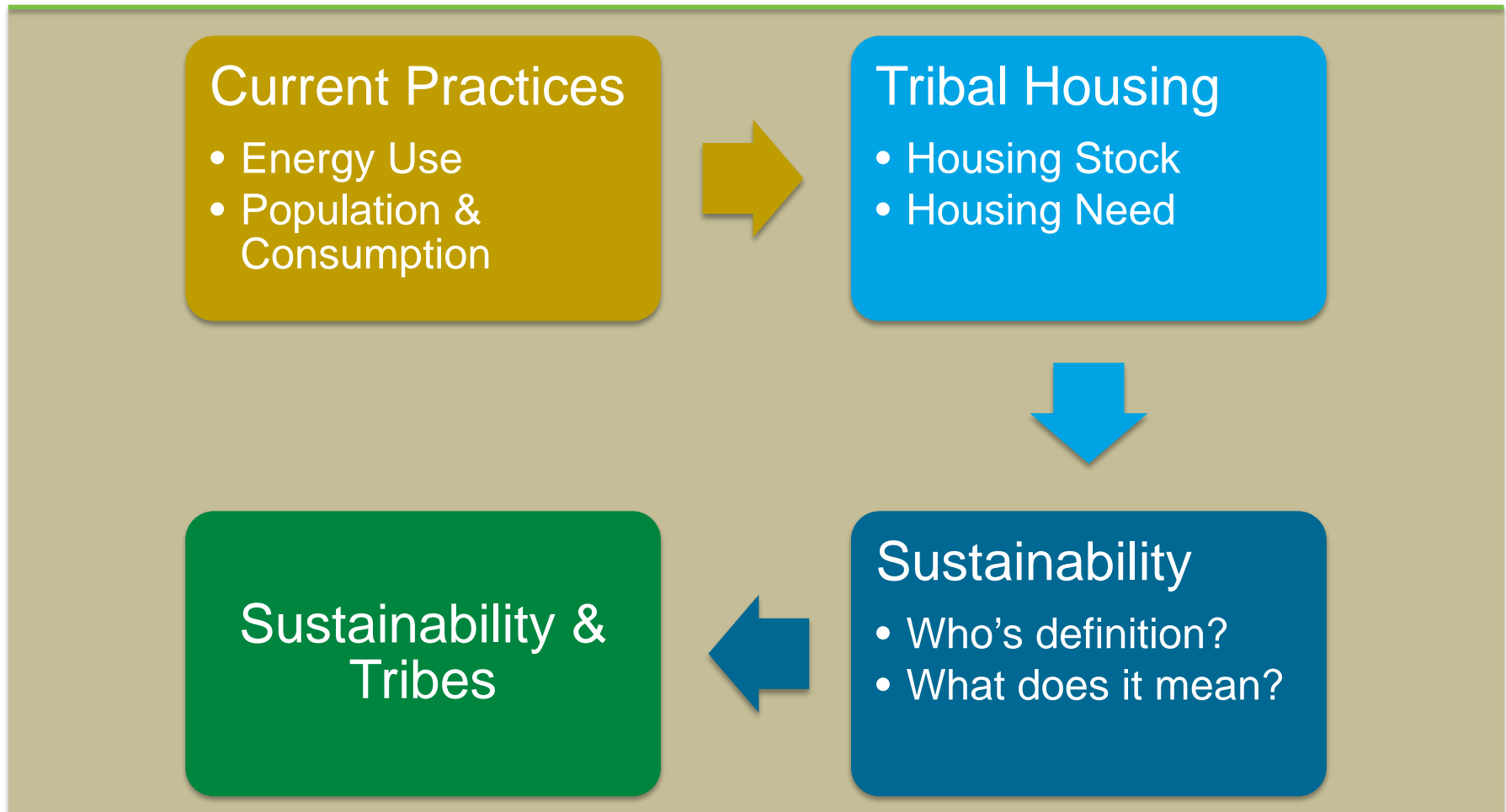


Typical home in need of repair – Red Rock

“Our values, beliefs and traditional link to the land and role as stewards of the environment compel us to develop our energy resources.” ~Draft NN Energy Policy, March 2011



Green Building on the Navajo Reservation



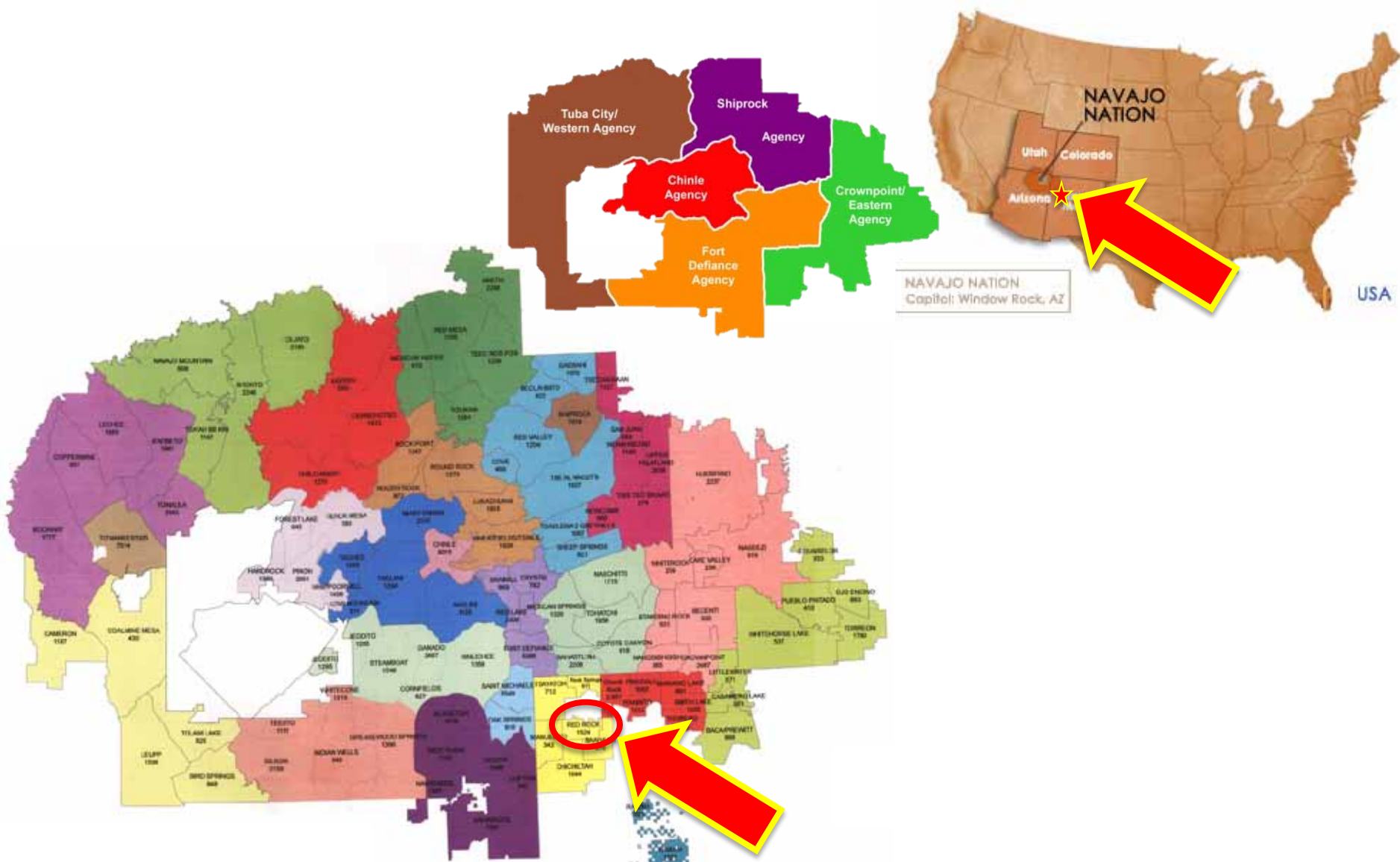



Community Profile

The Navajo Nation

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy





*“The key to our prosperity and self-determination is our people and our land.”
~ NN President Ben Shelly*

Government Structure

Community Resources & Public Facilities

Land Use

Geography

Economic Data

Population Characteristics

Housing Characteristics



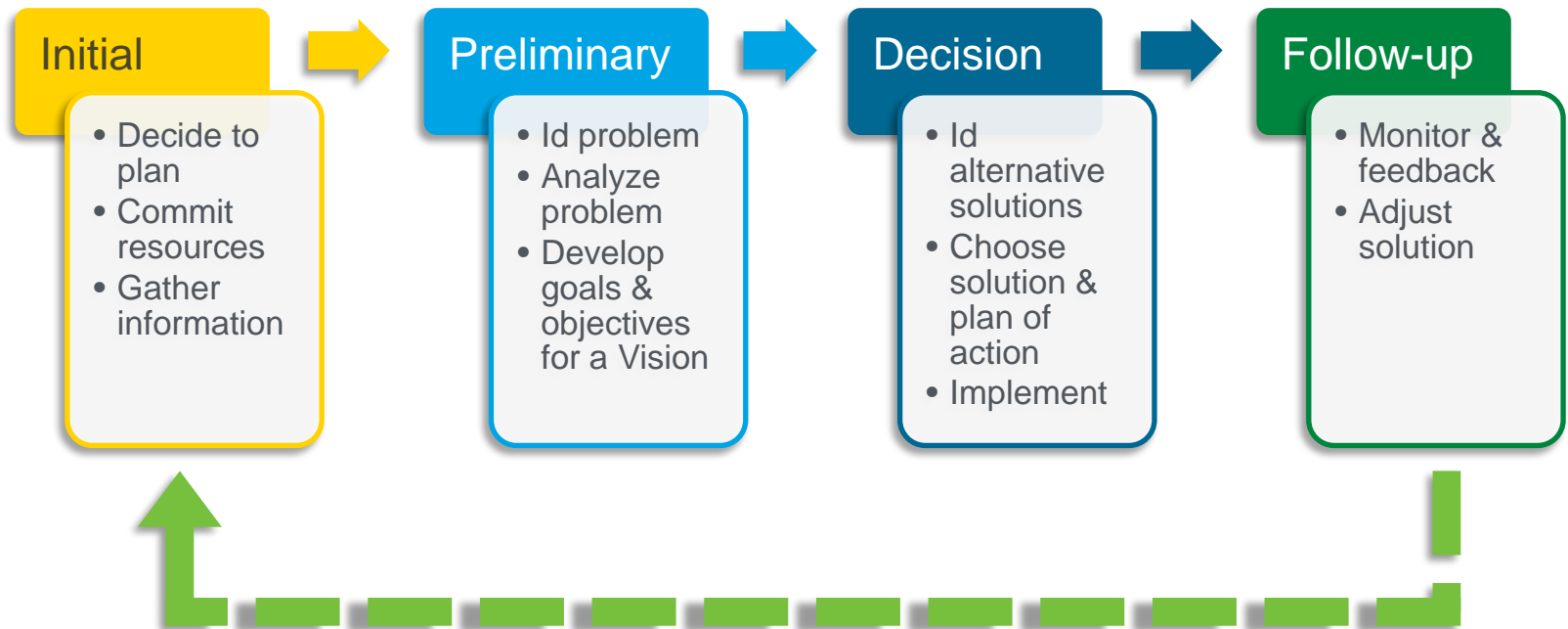
Work Plan & Public Involvement

What specific activities need to be done to implement?

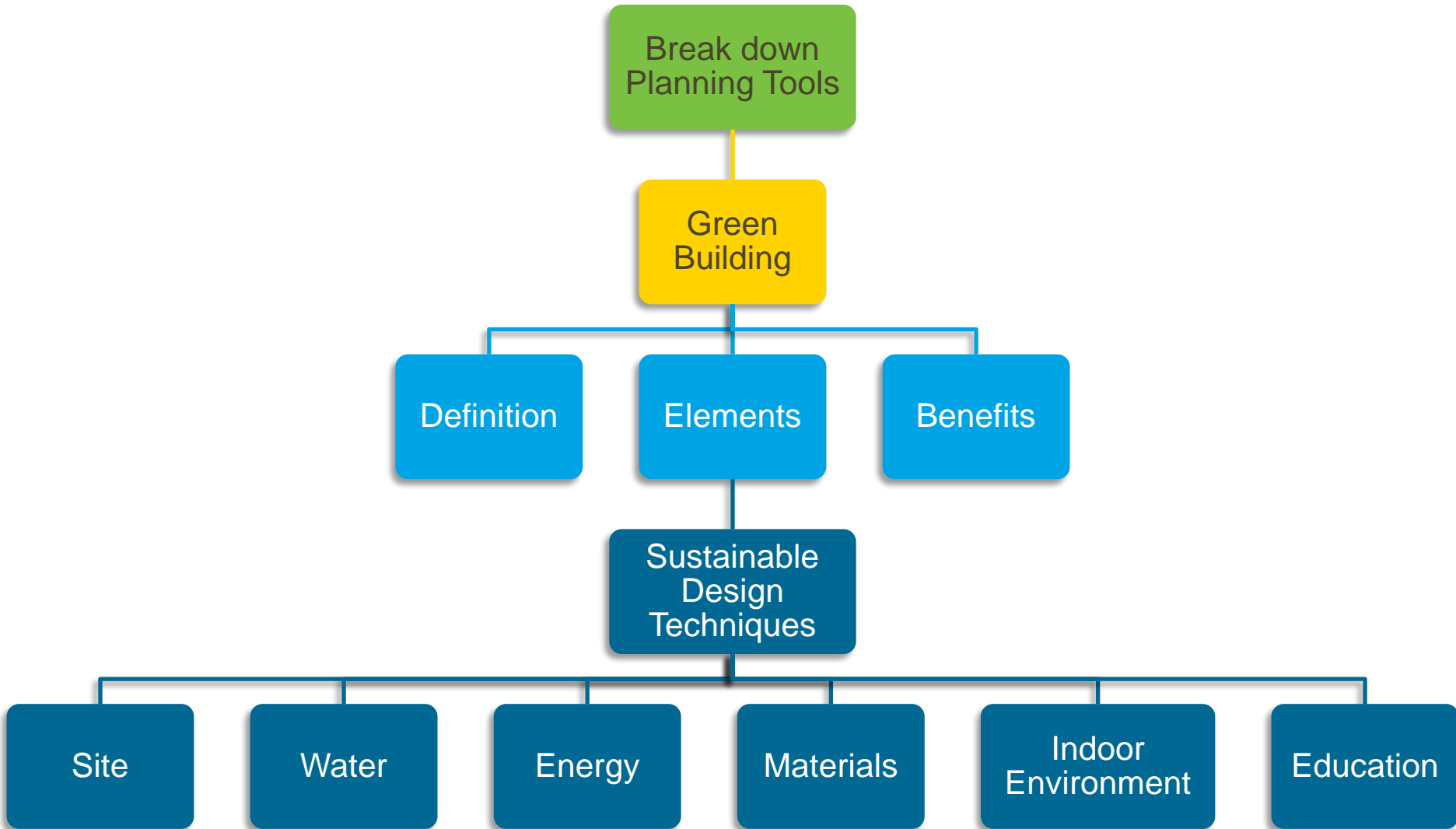
Break down the Planning Process



Define the Community Planning Process

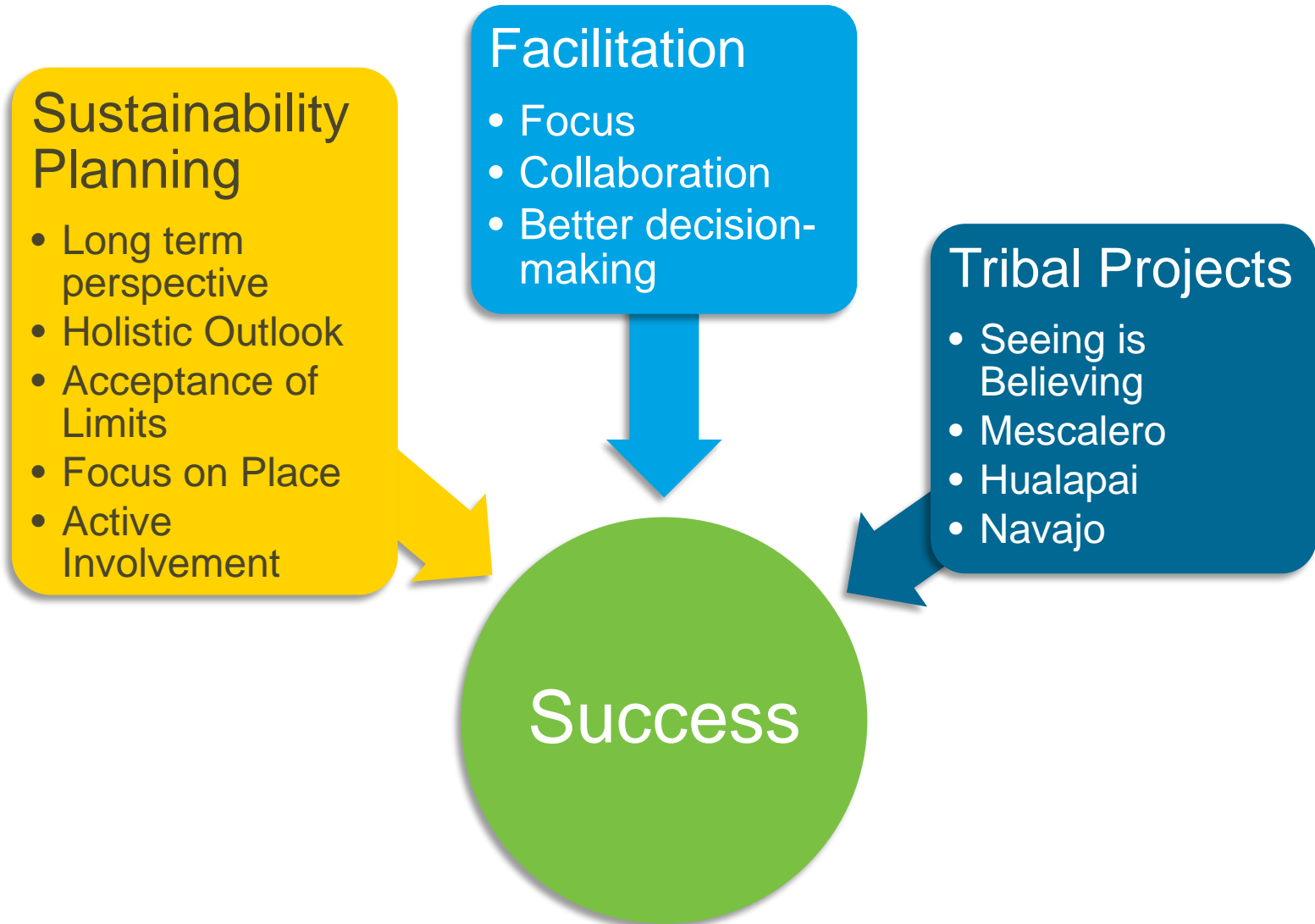






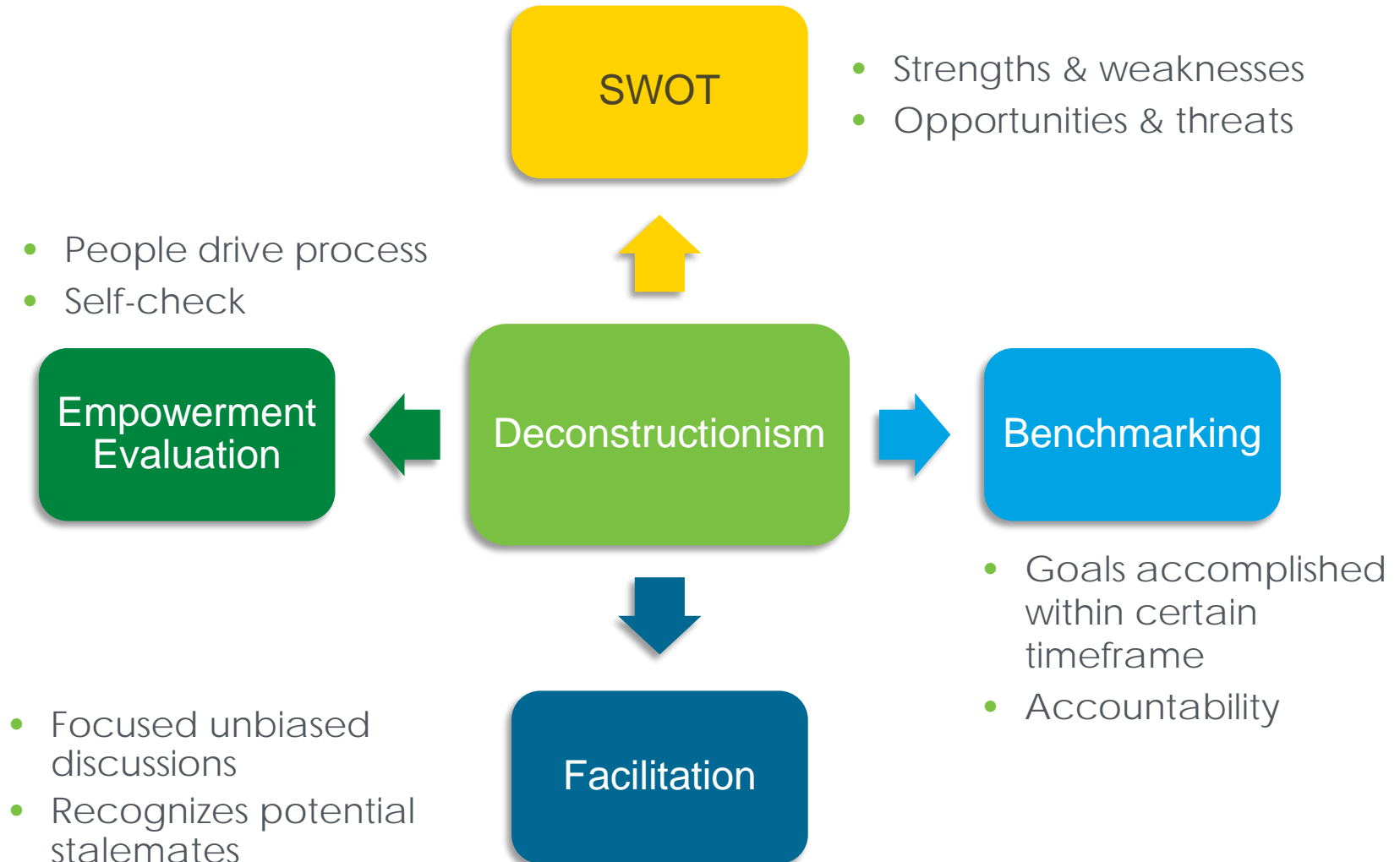


Implementation



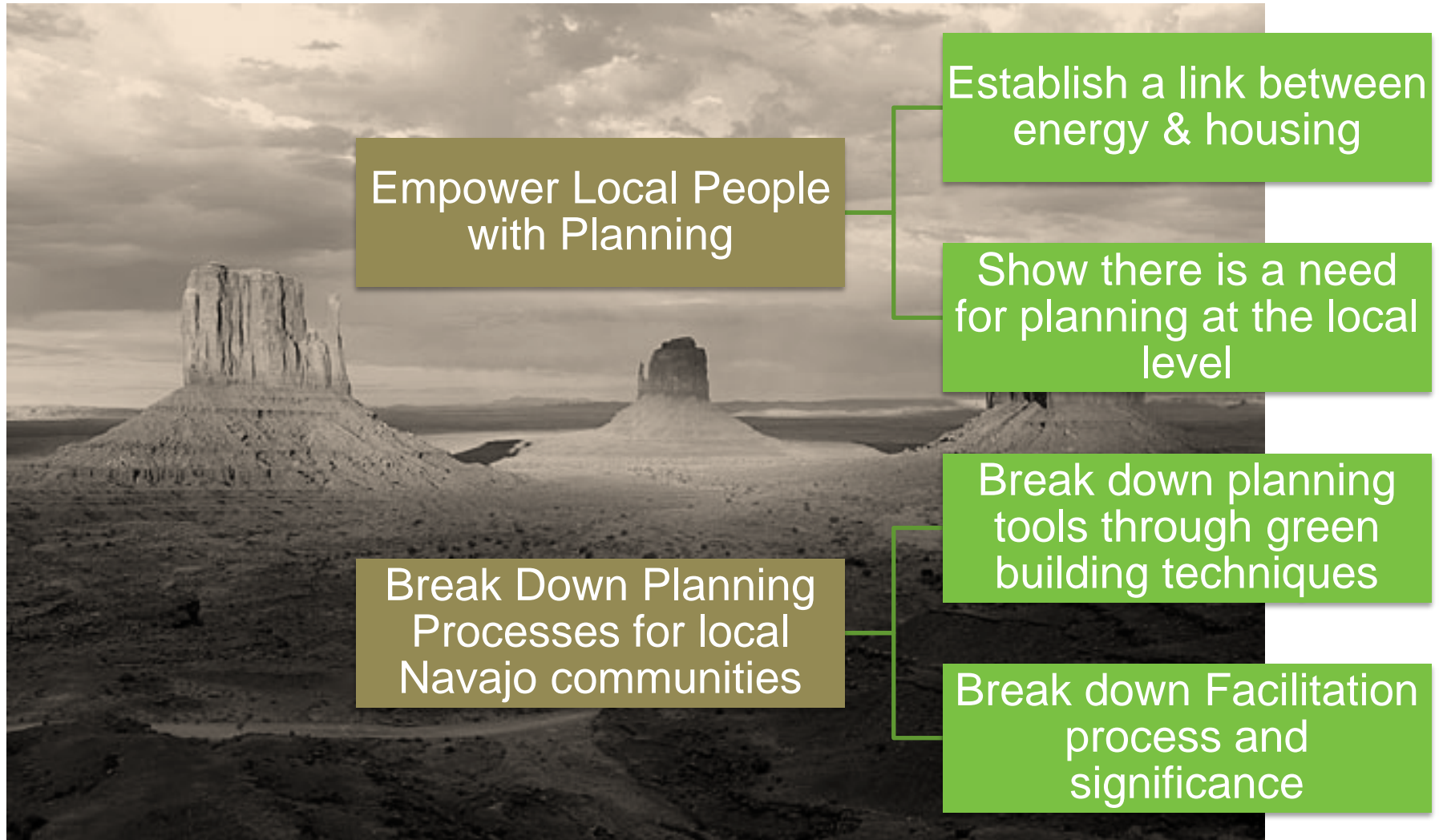


Assessment & Evaluation





Conclusion & Recommendations



Recommendations



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