

# Use of Ecological Expertise for Communicating Sound Management Advice

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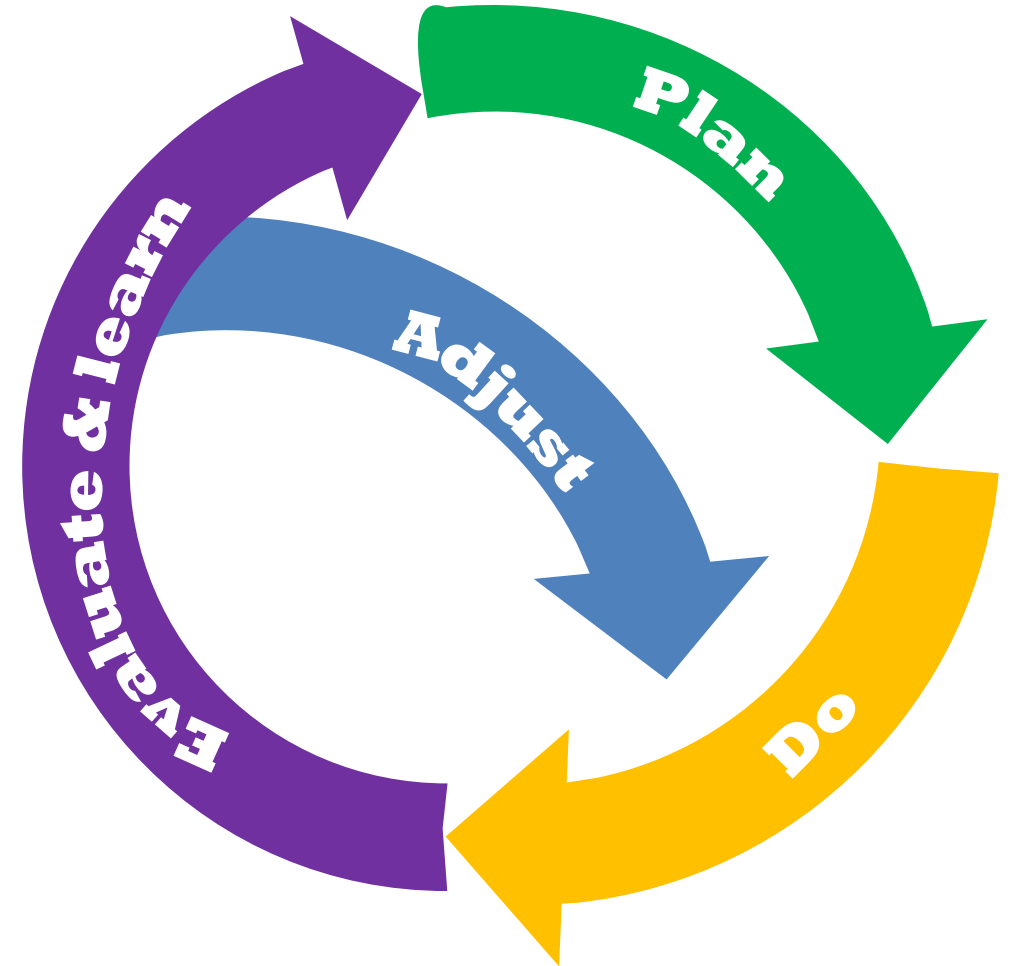
# Supporting Co-Production

## What is Co-Production?

- Coproduction of knowledge is the process of producing usable, or actionable, science through collaboration between scientists and those who use science to make policy and management decisions

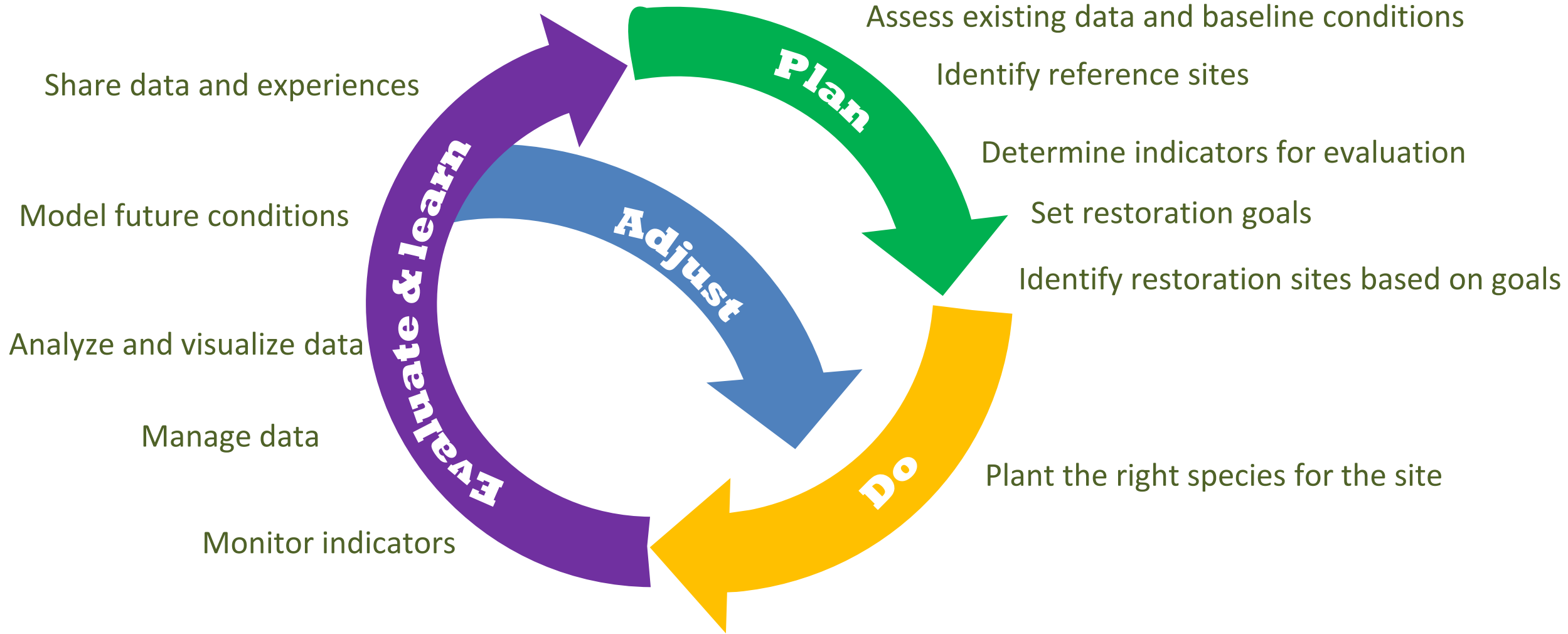
## Key elements in a successful Co-Production

1. Building ongoing relationships between scientists and stakeholders
2. Ensuring two-way communication between the groups
3. Maintaining a focus on the production of usable science



Generalized conceptual model for Co-Production  
(i.e using ecological expertise for communicating sound management advice)

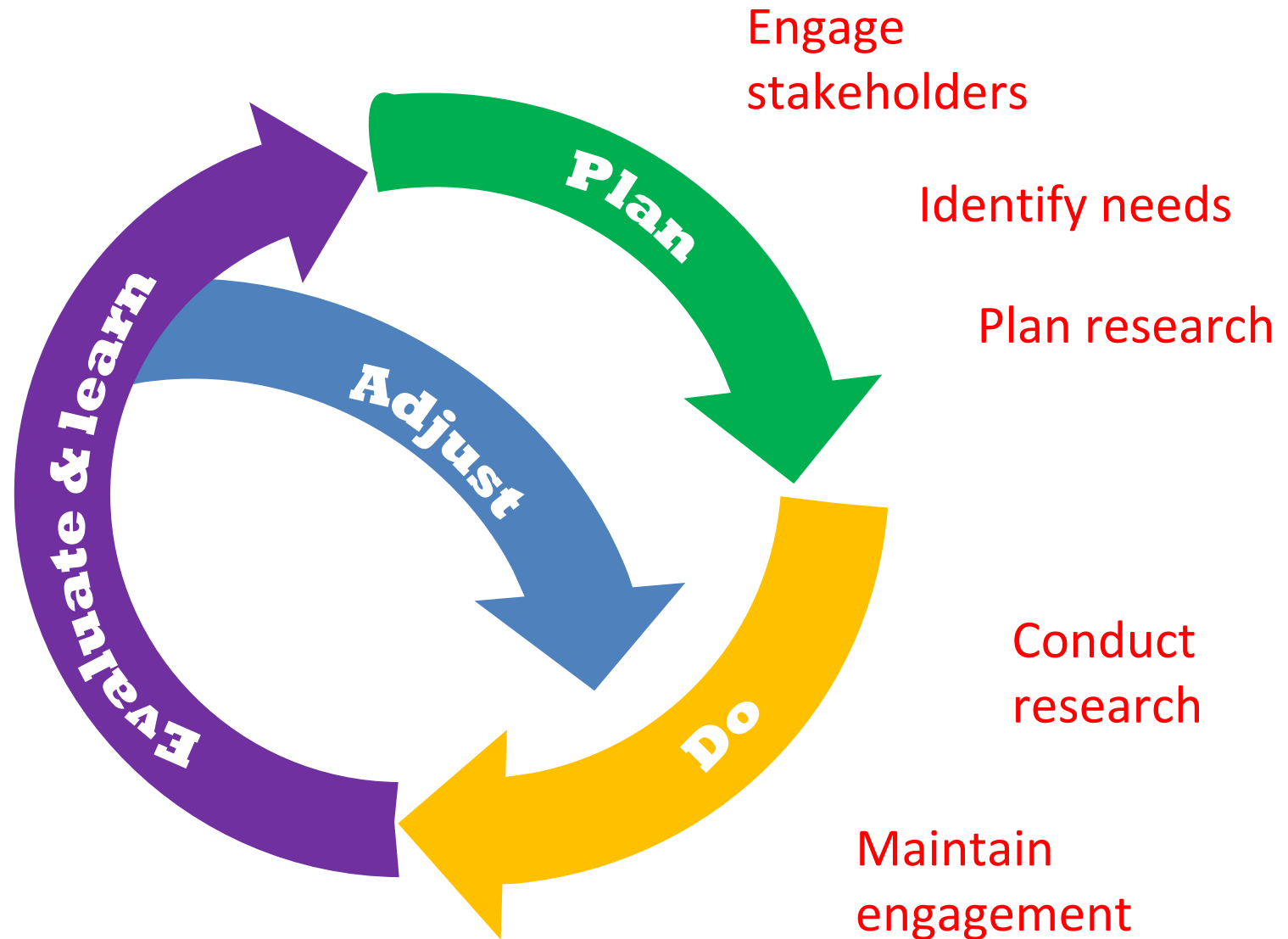
# Data, Tools, and Expertise to Support Restoration



# Manager Engagement: Lessons Learned

- Make human connections
- Read management plans
- Invite managers to be on the proposal team
- Invest in gathering requirements for the entire project cycle
  - prototype as soon as you can
  - iterate
- Understand manager's capacity
  - engage their leadership
  - reveal constraints early
- Provide workshops and training

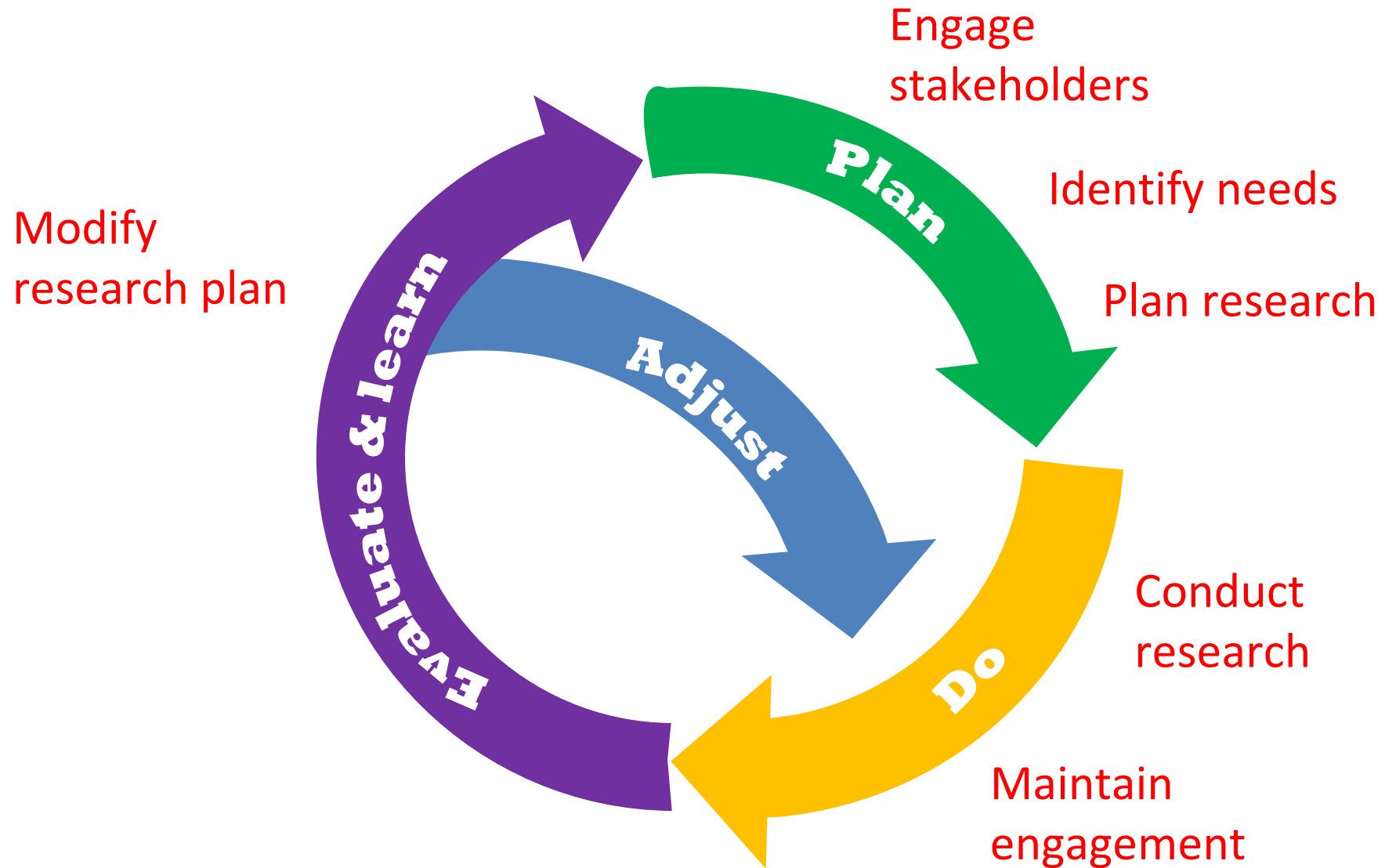
# The Adaptive Research Cycle



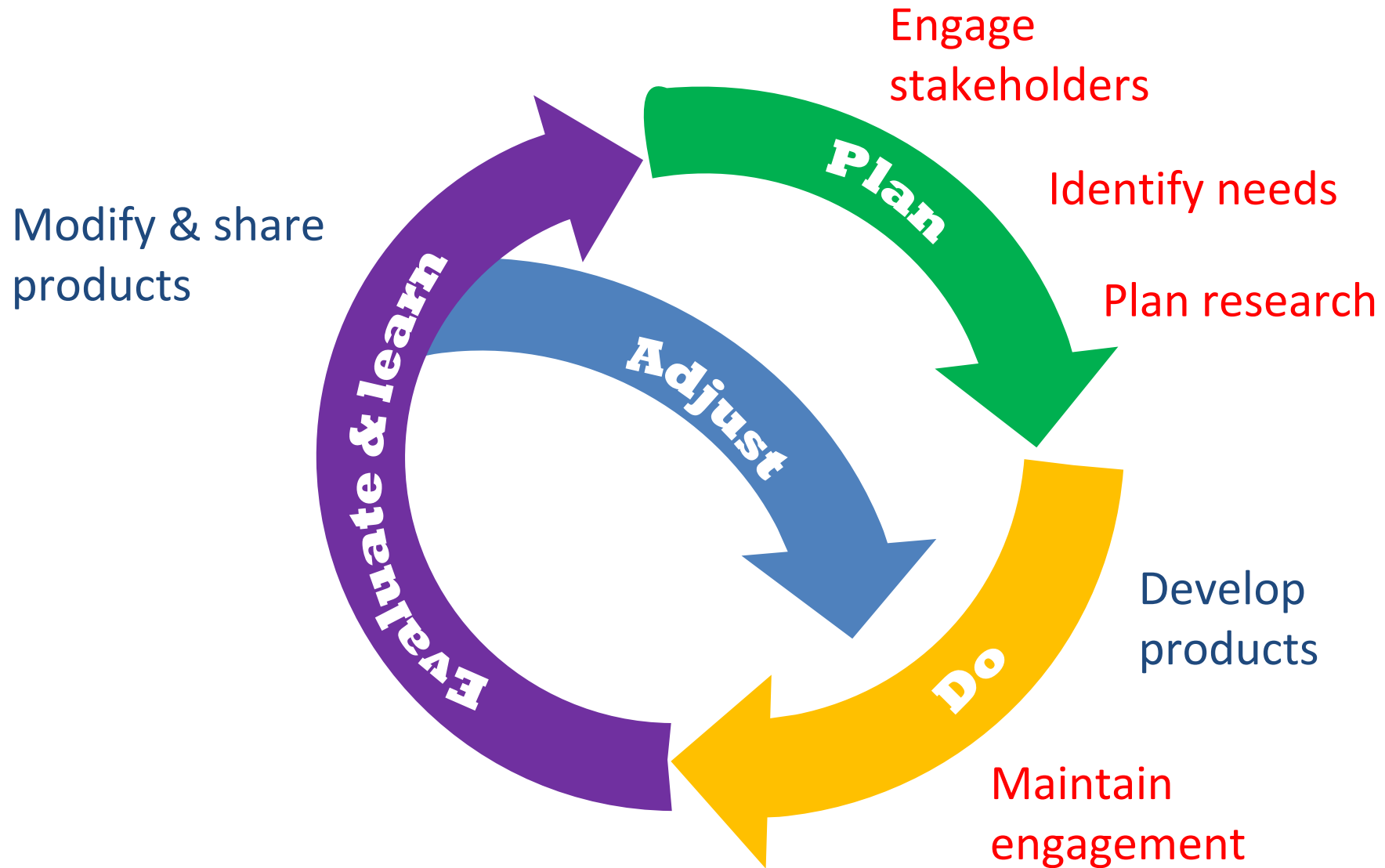
- Driven by management needs identified by end-users
  - Reports, Stock Assessments
  - External Advisory Panel
- Initial engagement with end-users
  - Guide project design, study site selection
- Maintain engagement with end-users
  - Collaborative partnership



# The Adaptive Research Cycle



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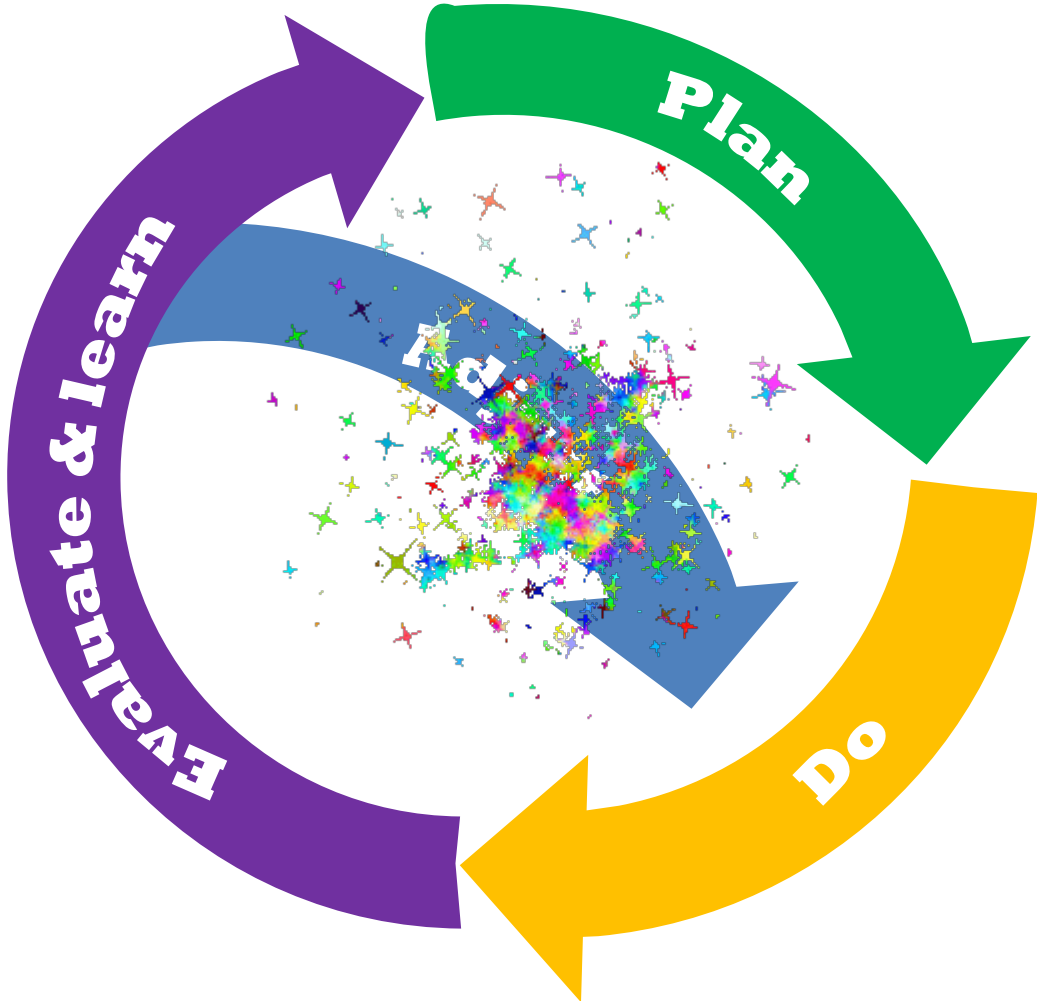




- Local problem with transferability
- Increased end-user engagement
- Communication with stakeholders guided application of scientific data
- Stakeholders need tangible & accessible products & recommendations
- Grant programs may need modification to support adaptability & product development



# Messy Reality



- Partnerships
  - Long-term, trusted
  - Engagement outside of specific projects
  - Identify and address gaps in knowledge
- Products
  - Flexibility in application
  - Longevity
  - Broad applicability
  - Useful science  $\neq$  usable science
- Opportunistic = people on the ground

# Questions?

