



# Performance and Economic Analysis

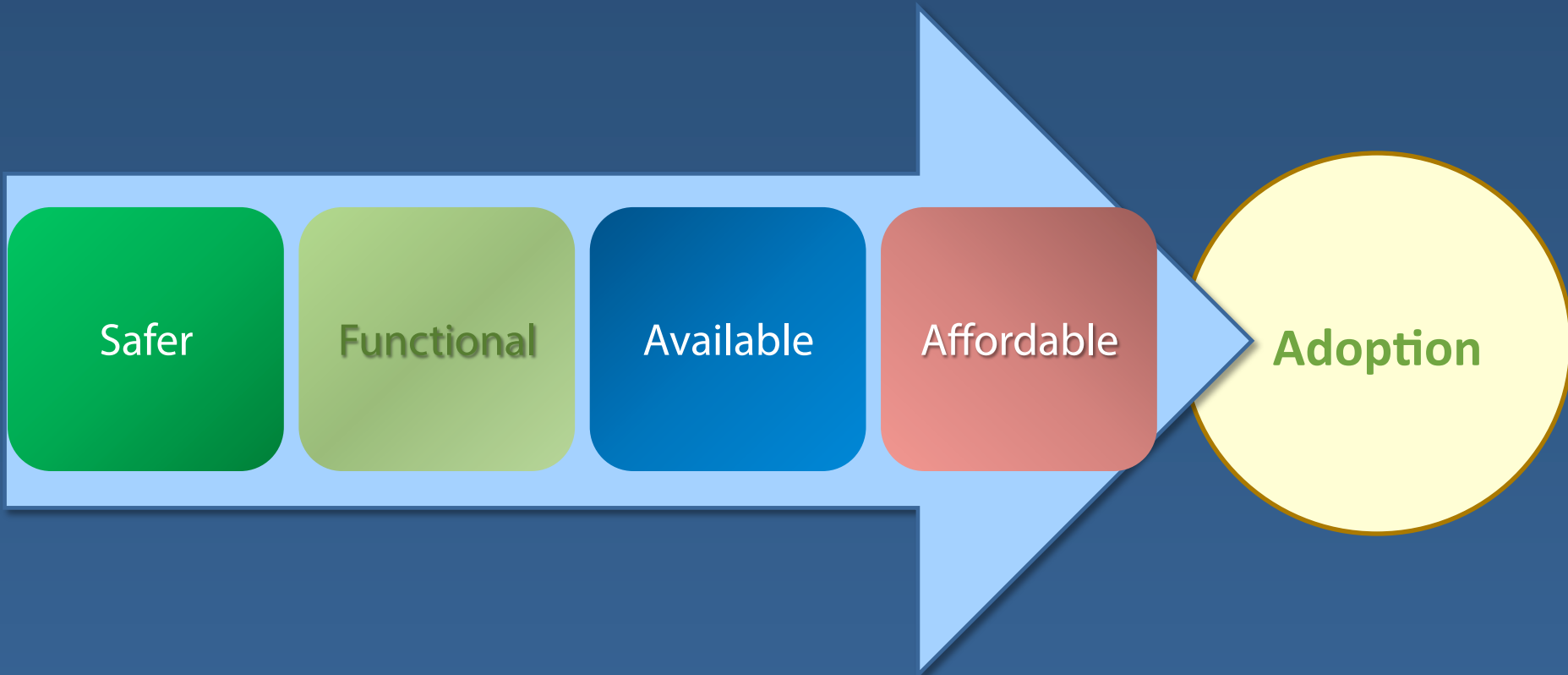
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Mar 6, 2015

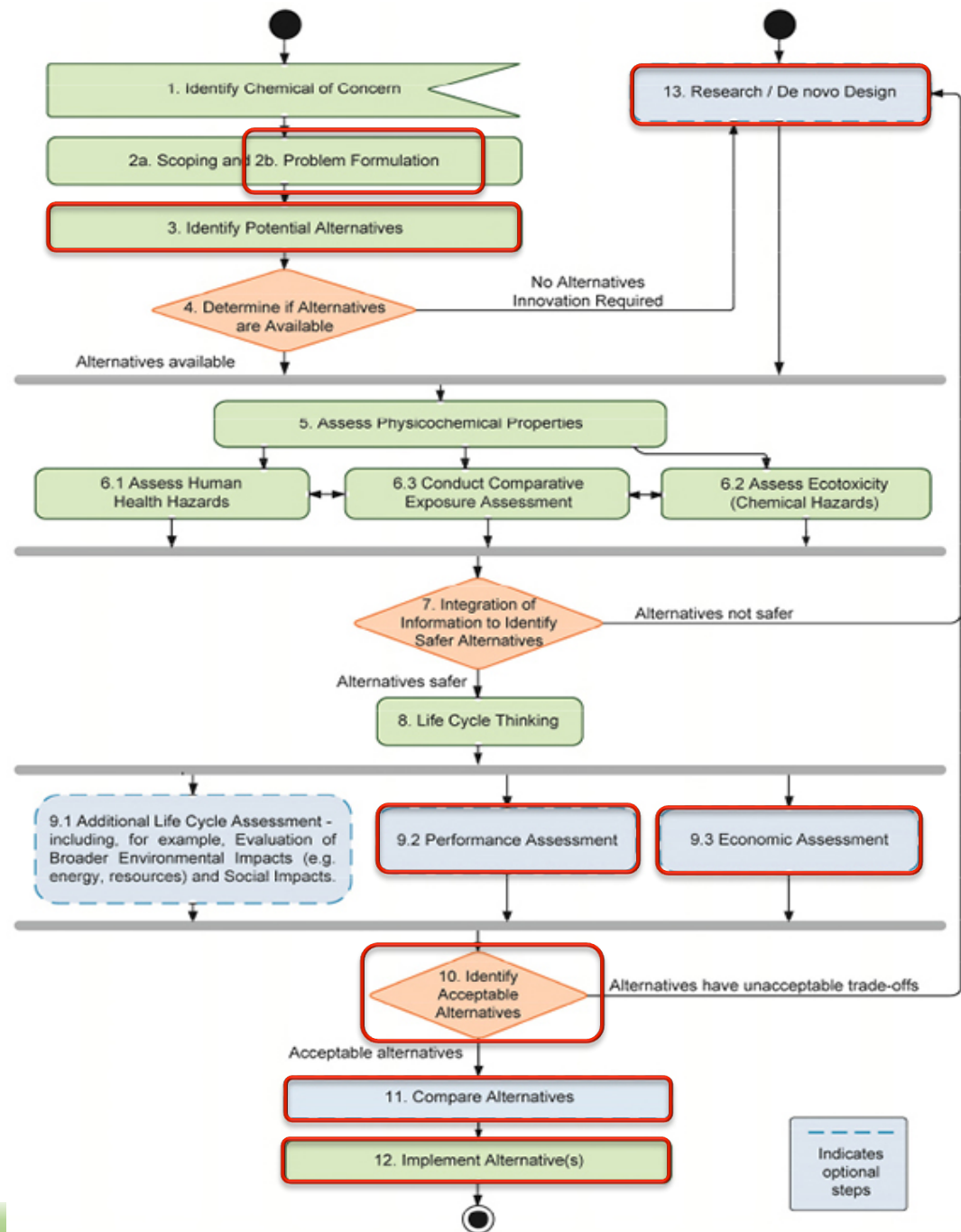


# Goal: Safer and....



# NAS Panel Framework

- Technical feasibility and Performance considerations
- Economic feasibility



# Technical Feasibility criteria and performance analysis

- Functional requirements of the use
  - Consider process and product changes
- Relevant performance characteristics
- Performance metrics
- Collection of data; pilot tests
- Performance evaluation

# Financial Analysis

## PURPOSE:

- *Markets: Does an investment add economic value to a company?*
- *Profitability: Can the change be afforded by the company?*
- *Cost Comparison: How do the costs of different alternatives compare?*

## METHOD:

- *Markets: Evaluate market opportunities*
- *Profitability: Calculate cash flows over the life of a project and apply measures of profitability*
- *Cost Comparison: Compare key costs of different alternatives*

## PROCESS:

- *Collect cost information*
- *Determine cash flows*
- *Apply measures of profitability*
- *Interpret results*

# Economic analysis

- Direct and indirect costs and revenues
  - total cost assessment, full cost accounting
  - externalized costs
- Qualitative evaluation of less tangible costs and benefits
- Future scenarios, economies of scale
- Availability of information often limited

# Assessment goal and scope

Resin plasticizers

PVC plasticizers

Wire and cable

Power cable

Exterior wet environment

Specific application

Product or material category

Thermosphere

Mesosphere

Stratosphere

Troposphere

Specific Application

<http://www.free-online-private-pilot-ground-school.com>

# Existing Methodologies for Performance and Financial Assessment

- Industry design, process, engineering methods
- Application-specific standards and methods: e.g., ASTM, mil specs
- Regulatory Alternatives Assessment guidance
  - ECHA analysis of alternatives for authorisation
    - suitability and availability
    - Economic feasibility
  - California alternatives analysis



# Thank-you

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