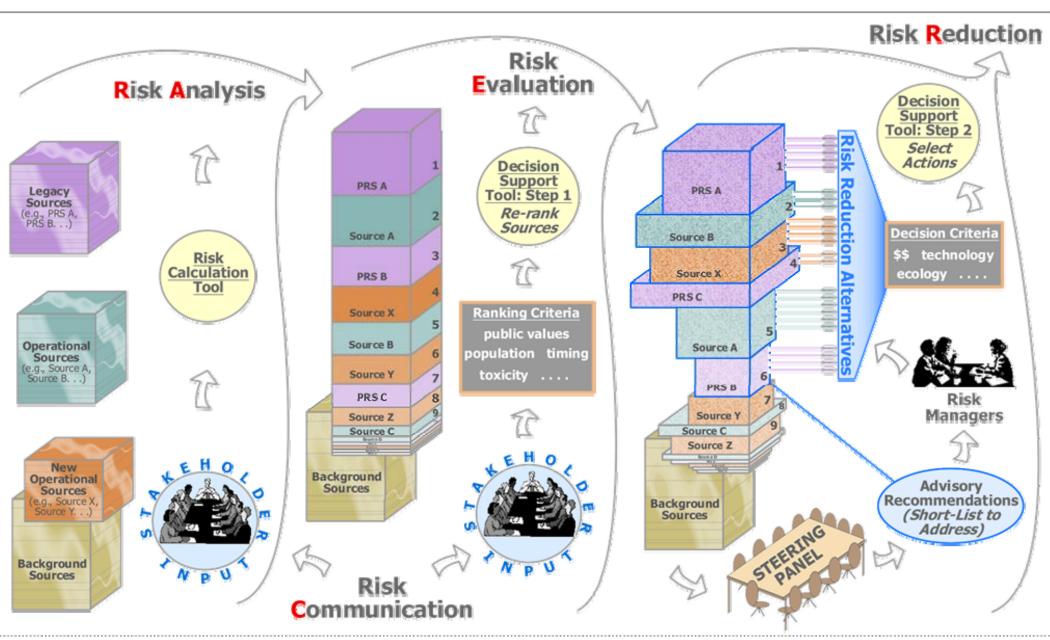# Risk Analysis, Communication, Evaluation, and Reduction

RACER

**"A process (a framework and a tool)
to guide decisions made about risk reduction
at Los Alamos National Laboratory."**

Risk Reduction

Risk Analysis

Risk Evaluation

Legacy Sources (e.g., PRS A, PRS B...)

Operational Sources (e.g., Source A, Source B...)

New Operational Sources (e.g., Source X, Source Y...)

Background Sources

Risk Calculation Tool

STAKEHOLDER INPUT

Decision Support Tool: Step 1 *Re-rank Sources*

Decision Support Tool: Step 2 *Select Actions*

PRS A
Source A
PRS B
Source X
Source B
Source Y
PRS C
Source Z
Source C
Background Sources

Ranking Criteria
public values
population   timing
toxicity   . . . .

Decision Criteria
$$ technology
ecology   . . . .

Risk Reduction Alternatives

PRS A
Source B
Source X
PRS C
Source A
PRS B
Source Y
Source C
Source Z
Background Sources

Risk Managers

Advisory Recommendations (Short-List to Address)

STEERING PANEL

Risk Communication

SOURCE IDENTIFICATION

SOURCE RANKING (by risk potential)

SOURCE RANKING (based on decision support tool)

ALTERNATIVE EVALUATION

RACER DATABASE VISION