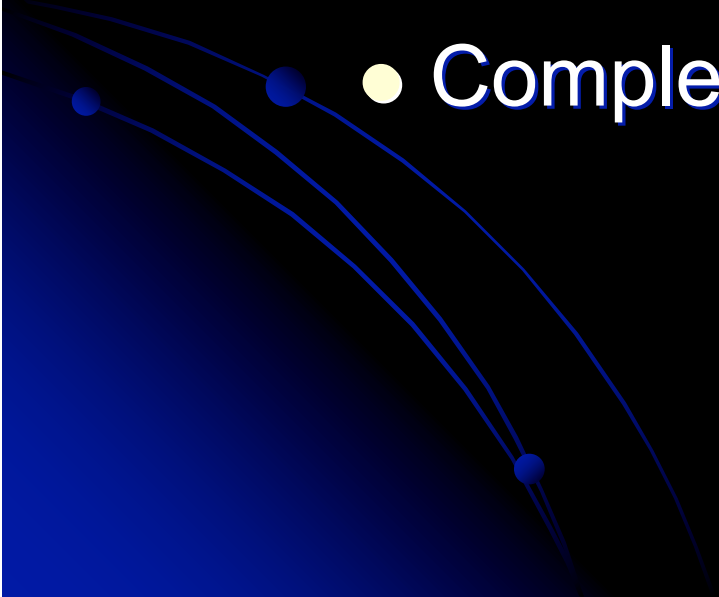


OBSERVATIONS


Toward a first cut at summarizing....

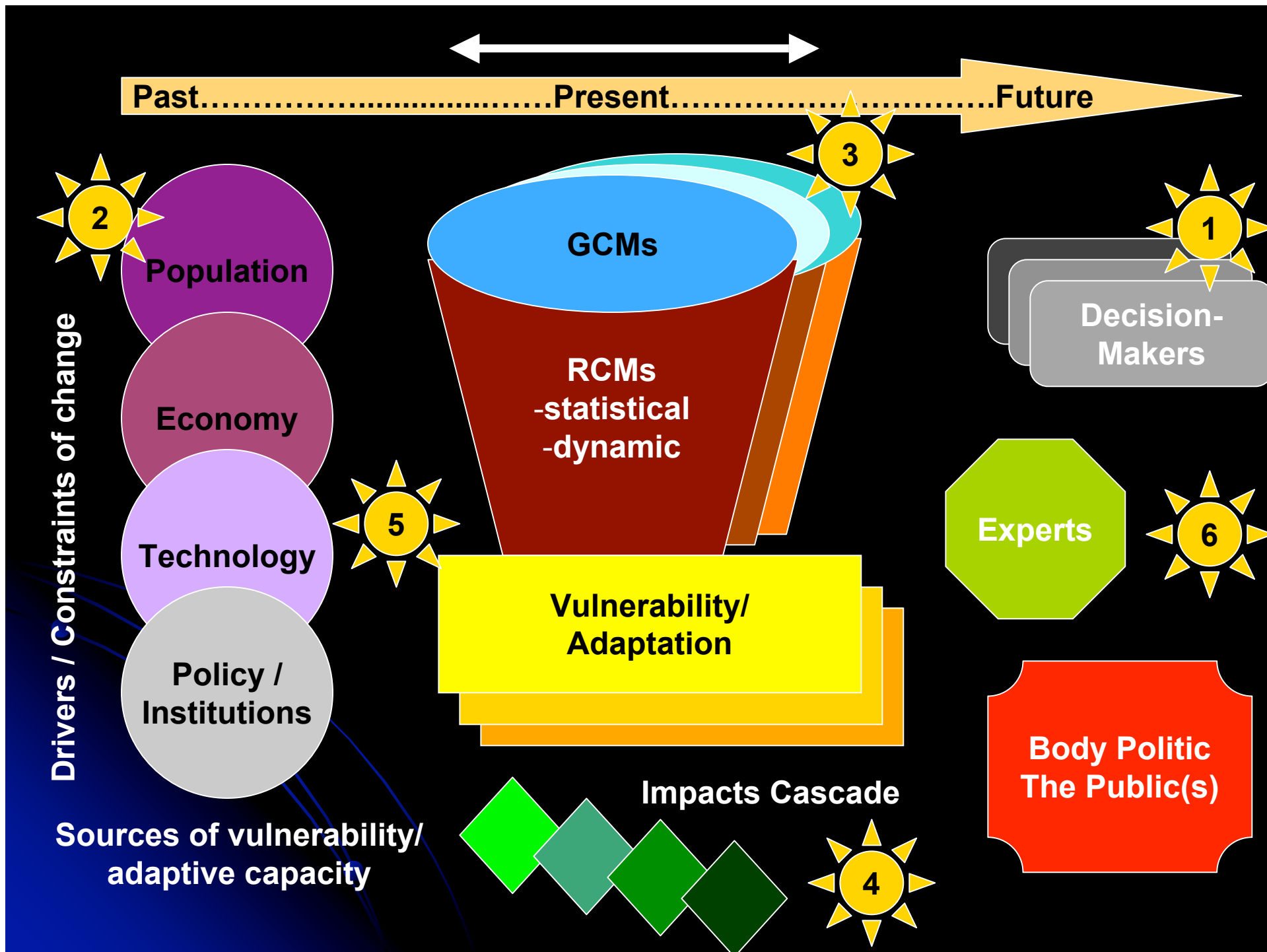


Watching with Different Sets of Eyes

- The Meta-Perspective
 - Science/Assessment eyes
 - Golden State Decision-Makers eyes
 - Complete outsider eyes
- 

I. Meta-Perspective

- What was this all about?
 - The terrain we've covered
 - The territory we didn't say much about
- 



Little mention of...

- Institutions and institutional change
- Political economic and value landscape
- Other players...Change agents
- Tipping phenomena in the social world (“the other non-linearity”)
- Importance of science relative to other factors weighing in on decisions

II. Promising Steps Forward in Science/Assessment

- Decision Context and Uncertainty
 - Causality: Retrospective analyses
 - Sensitivity/Criticality: “salmon run” approach
 - Specificity: Higher/adequate temporal and spatial resolution
 - Relevance: Get the decision timeframe right
 - Timing of information supply
 - Planning timeframe
 - Contextuality: Understand DM culture, structure
 - Evaluation: Post-mortems

Moving Forward (cont.)

- Socio-Economic Futures and Uncertainty
 - Path-dependencies, emerging properties (w/ “history check”)
 - Deeper understanding of underlying functional relationships in scenarios (e.g., demographics)
 - Apollo 2 and 1
 - Cost, facilitation of various mitigation options (various levels of C constraints)
 - Need multiple reference cases
 - Systematic incorporation of economic models
 - Imagine surprises

Moving Forward (cont.)

- Climate Futures and their Uncertainties
 - Climate sensitivity
 - Radiative forcing, aerosols, ocean heat uptake etc.
 - Signal : Noise ratio
 - Much progress and hope in downscaling
 - Scale-dependent parameterization
 - Joint probabilities of temp and precip changes
 - Damage functions, rather than emission drivers
 - Multi-model comparisons of abrupt climate change

Moving Forward (cont.)

- Consequences and their Uncertainties
 - Economic impacts:
 - Various models, specification and validation
 - Focus on “out-of-equilibrium” behavior, additional costs
 - Choice set of decision-makers
 - Human behavior and values – disaggregated, changing
 - Ecological impacts:
 - Compare models driven by diff. scenarios
 - Synergistic ecological impacts
 - Biotic interactions
 - Impacts of mitigation options
 - Vulnerability/Adaptive Capacity
 - Vulnerability scenarios and other approaches
 - Develop policy options

Moving Forward (cont.)

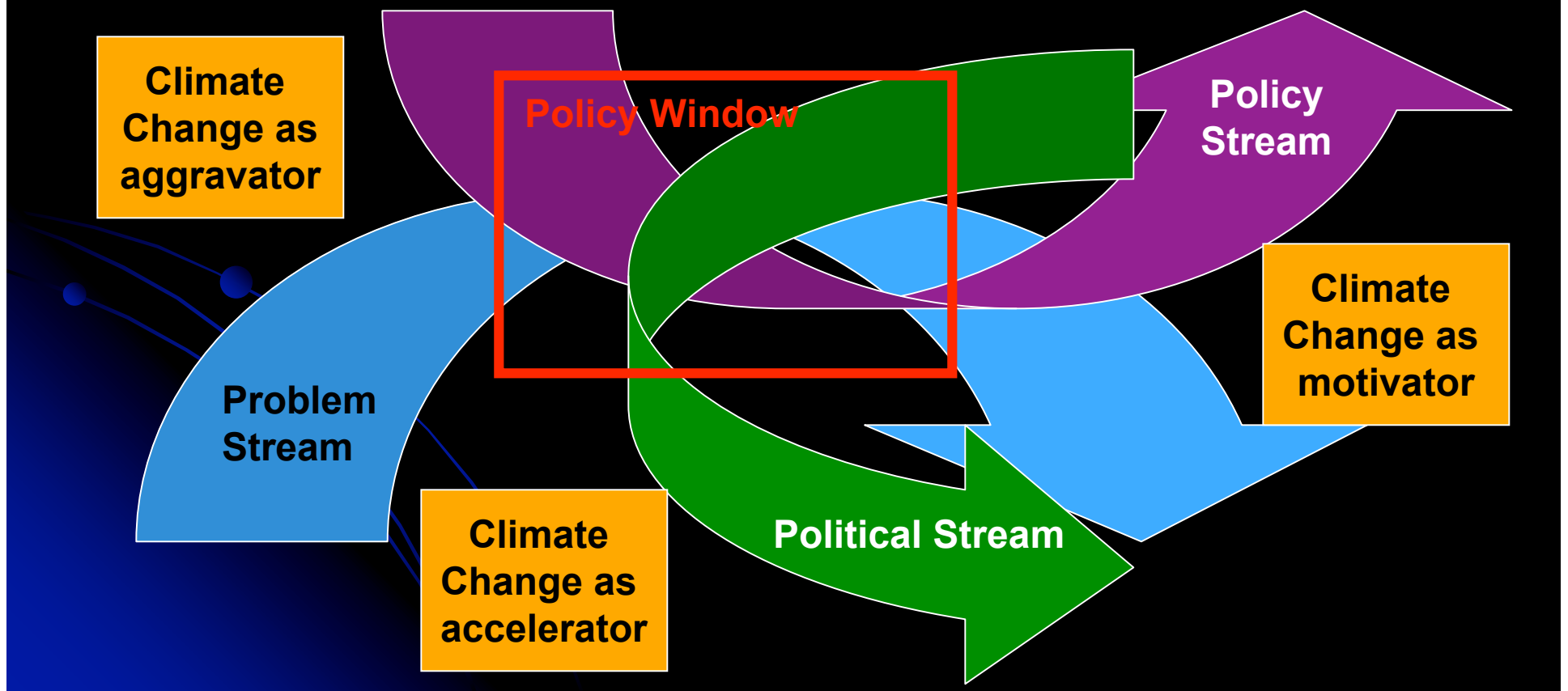
- Integrated Treatment of Uncertainty
 - Systematic integration of economic, socio-economic models into IA
 - Cost of abatement methods, impacts
 - Include learning in models (adaptive, sequential decision-making)
 - Interaction among strategic actors
 - Expert solicitation – opportunities and constraints on combining EO
 - Use different approaches (AM, RS) to systematically uncover/assess uncertainties, vulnerabilities
 - Framework for defining “dangerous” climate change

Moving Forward (cont.)

- Communicating Uncertainty
 - Strategic communication (know the opposition; timing)
 - Courage to be “certain”: what’s known?
 - Resonance: Connect with people’s experience, mental models, become better story tellers; help solve problems
 - Evidence & Persistence: Shore up risk-taking decision-makers; keep talking
 - Message about inertia in climate and social system; what we’re already committed to
 - Rational guidance on communicating degrees of uncertainty and confidence
 - Education

III. What's California Taking Home?

Kingdon's Policy Windows Model



What's California Taking Home?

- Committed, engaged experts
- Prospect of downscaled climate projections
- Prospect of impacts studies, info on extremes
- Vulnerability/adaptive capacity/option space assessment
- Focus on synergisms
- Track impact of decisions, deliberate learning
- Confirmed: difficult decisions still to be made with great uncertainty > hedging, robust strategies, no-regrets
- Avoid lock-in; learning is possible

IV. What will you say about this
when you get home?

K

Known

U

Unknown

U

Unknowable

L

Learning

MEETING!

Thanks!