

GETTING FROM SCIENCE TO DECISION-MAKING

November 8, 2018

Maryland Association of Floodplain and Stormwater Managers

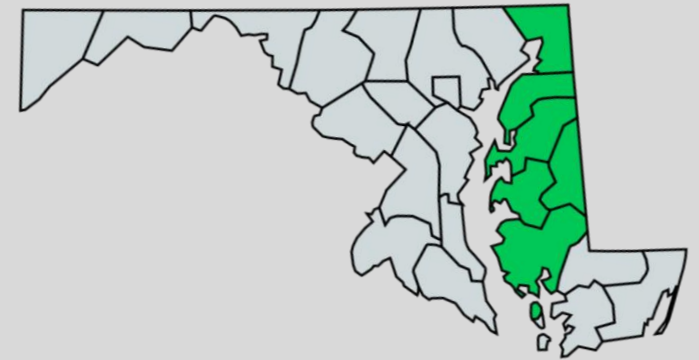
Jim Bass, Coastal Resilience Specialist



Eastern Shore Land Conservancy

ESLC's Coastal Resilience Program

- Provide assistance and resources to communities for mainstreaming climate preparedness
 - Hazard mitigation plans (Talbot, Dorchester)
 - Participatory vulnerability assessments (St. Michaels, Kent, & multi-jurisdiction)
- Increase regional capacity for adaptation
 - Eastern Shore Climate Adaptation Partnership
- Raise the visibility of rural communities and need for assistance and resources



The Eastern Shore Climate Adaptation Partnership (ESCAP)

The ESCAP “promotes learning and collaboration among Eastern Shore communities to prepare for changes in weather patterns, flooding, and other environmental conditions.”

“The ESCAP is a venue for partners to provide support, education, technical assistance, and resources to help communities build resilience.”

- 6 counties & 2 municipalities
- 3 state agencies
- 4 academic institutions
- 3 nonprofit organizations
- Emergency management, planning, health, public works, administration



A “Science to Solutions” Project

“ “ Mainstreaming Sea Level Rise Preparedness in Local Planning on Maryland’s Eastern Shore ” ”

Problem:

...local planners, emergency managers, and engineers...all want their communities to be more prepared and resilient. However, the resources and staff time that are required...are often diverted to more pressing local issues.

Hypothesis:

...if we lower barriers by providing analyses, tools, products, and additional effort, then communities will begin to embrace adaptation and resilience planning.

Goal:

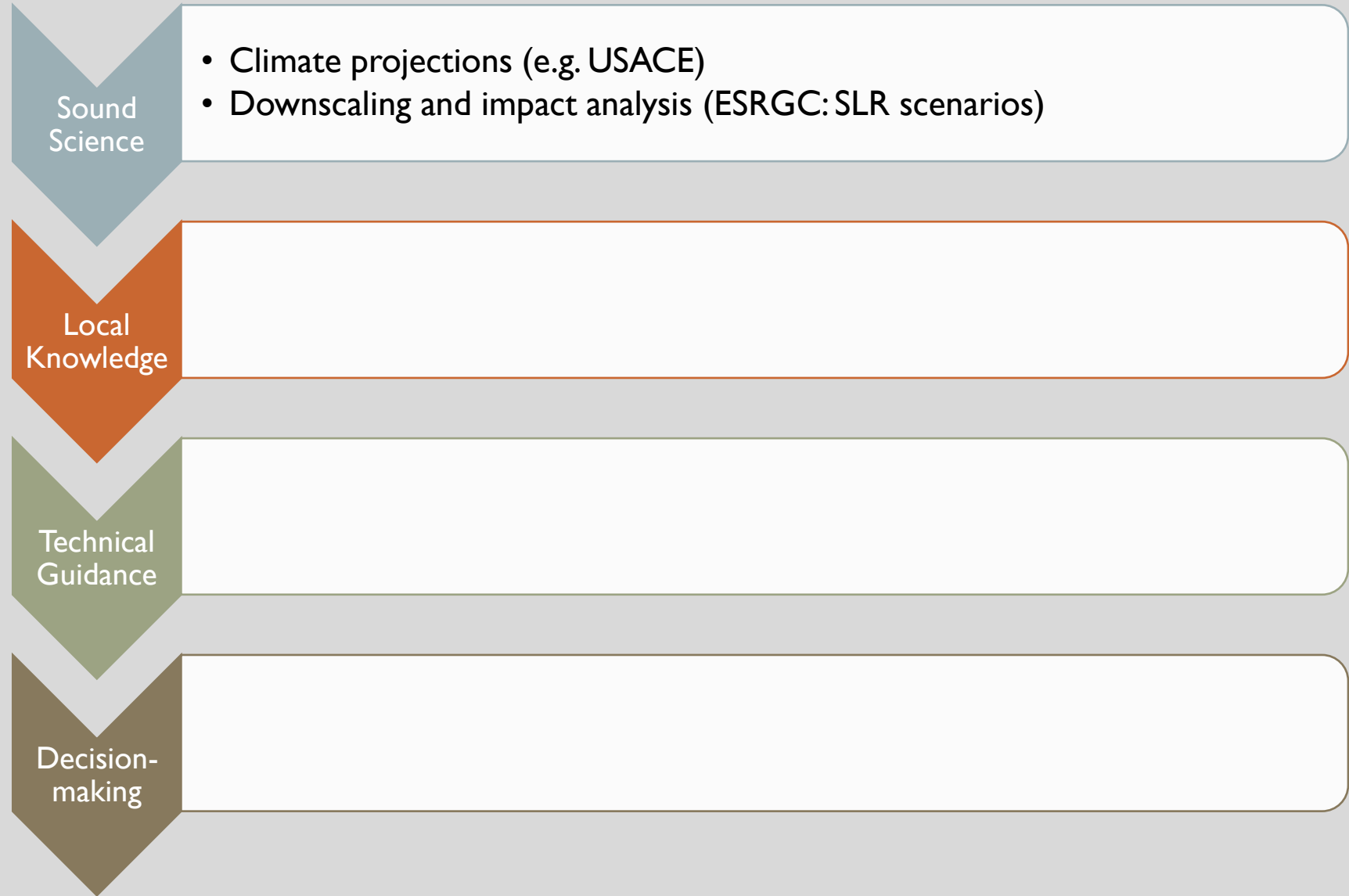
Assist communities in integrating sea level rise considerations into **floodplain management** and **capital investment planning**.

Geography:

Caroline, Cecil, Dorchester, Queen Anne’s, & Talbot counties (Kent mapping completed in 2016)

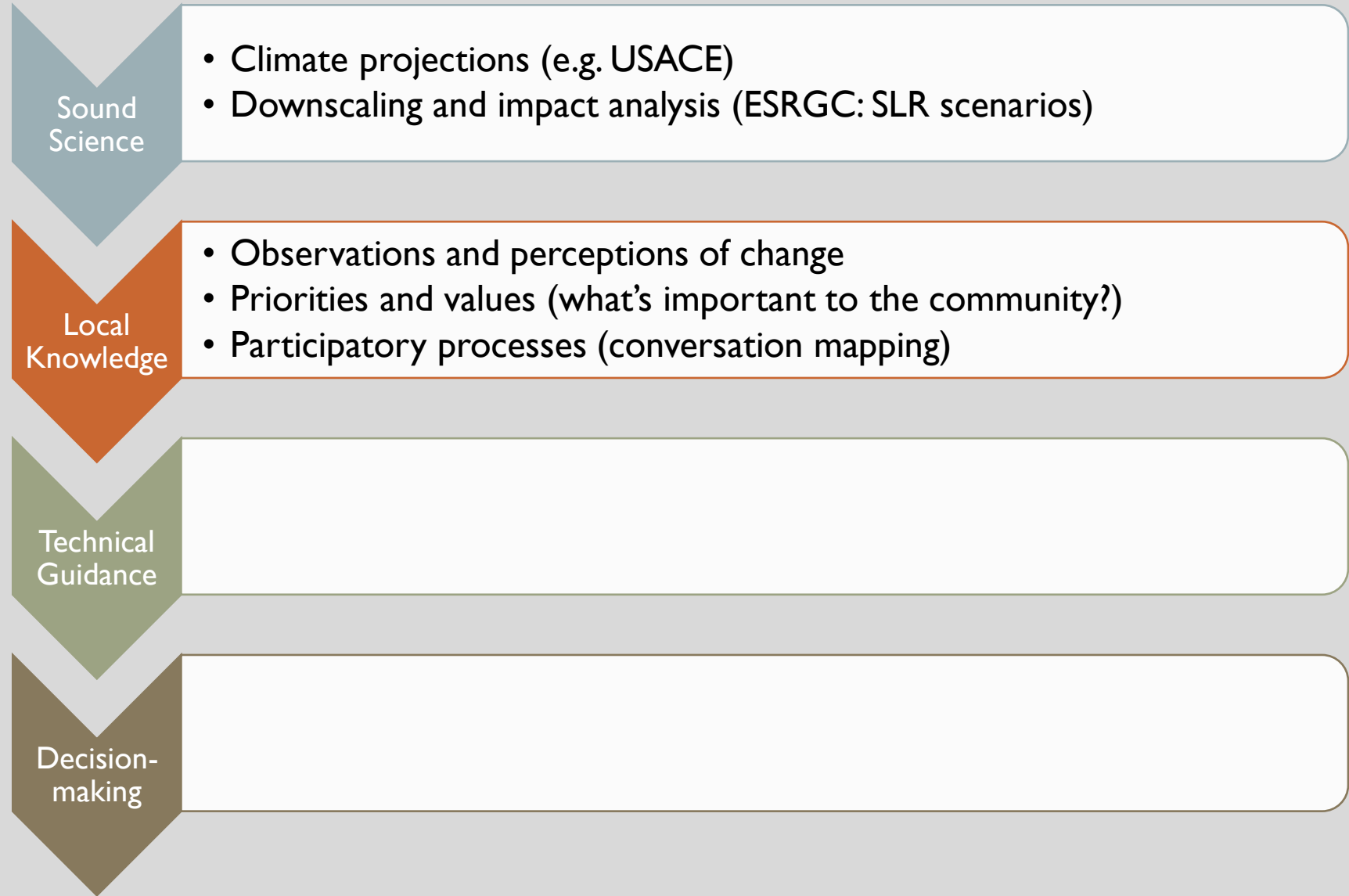


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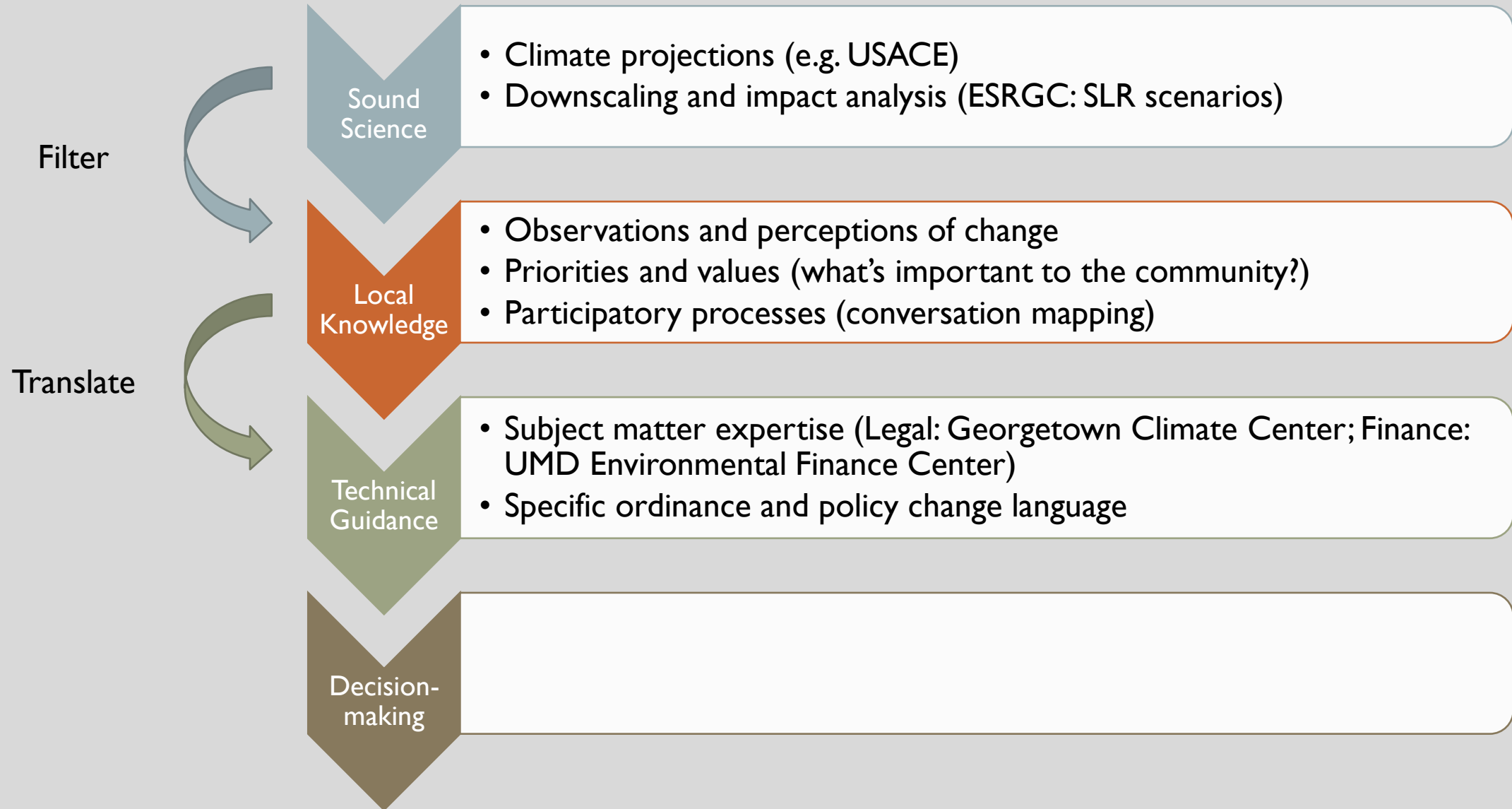


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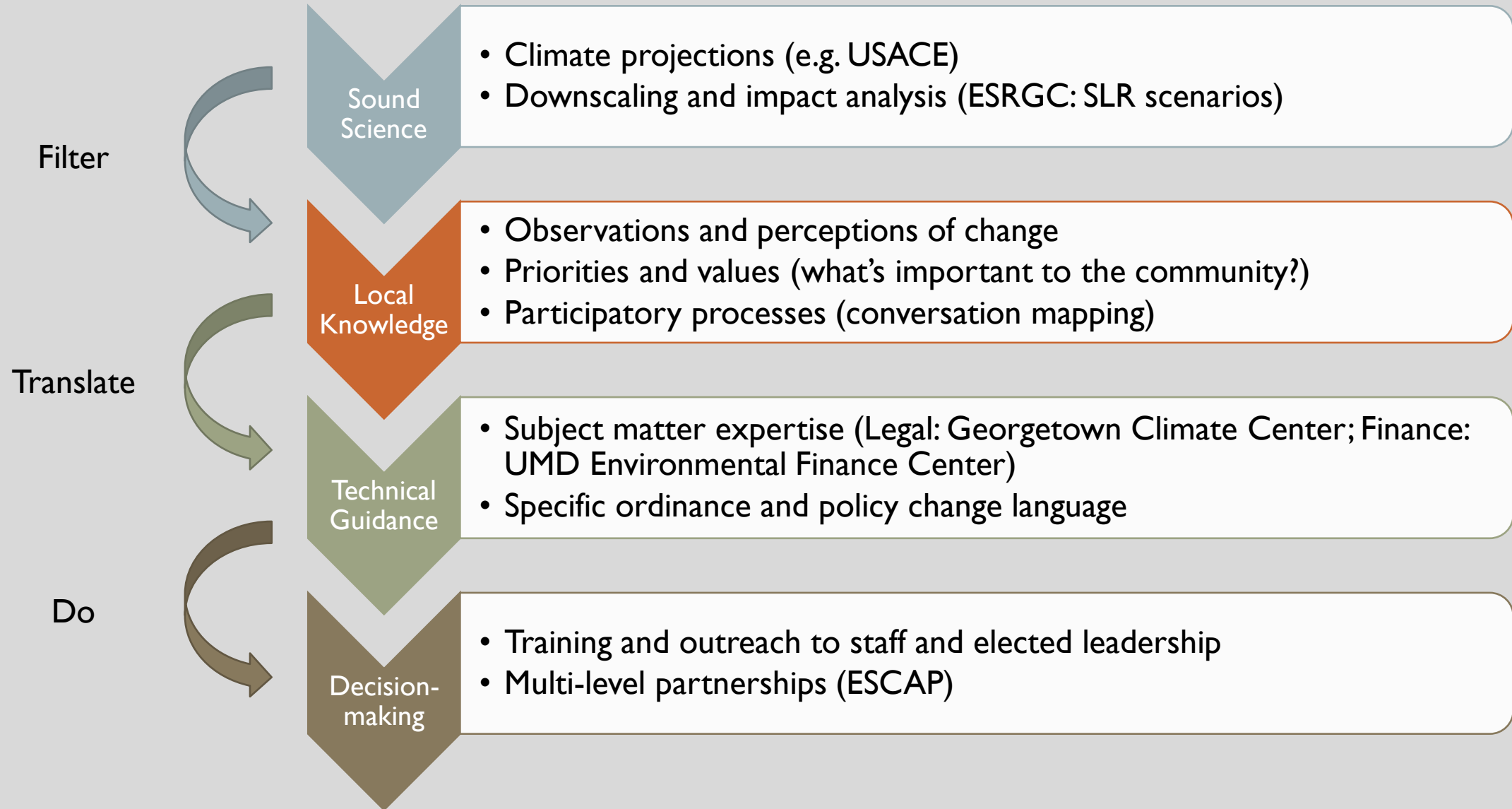
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A “Science to Solutions” Project



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“Science to Solutions” Deliverables

Mainstreaming Sea Level Rise Preparedness in Local Planning on Maryland’s Eastern Shore

1) GIS Analysis for 5 counties: Sea level scenarios for

- 2015 (baseline, 1% chance, and 0.2% chance floods)
- 2050 and 2100 (SLR projection, plus 1% chance flood)
- # of flooded **structures** and **cumulative damage value** (in \$)
- # and length of **inundated road segments**
- GIS training for county/town staff

2) Participatory Adaptation Workshops & Exercises for staff and elected leaders

3) Policy Guidance Documents

- **SLR-informed Higher Standards** for Floodplain Management
- Integrating Sea Level Rise into **Capital Investment Planning**
- Training and outreach for policy changes

Thank you

Jim Bass

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