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Virginia Coastal Resilience Master Plan

Hampton Roads Planning District Commission | 5/20/2021

Why Virginia needs a Coastal Master Plan

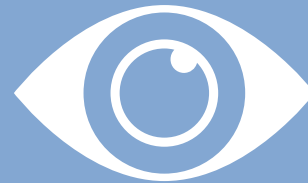
Whole of
Government
Approach



Build
Equity



Broader
View

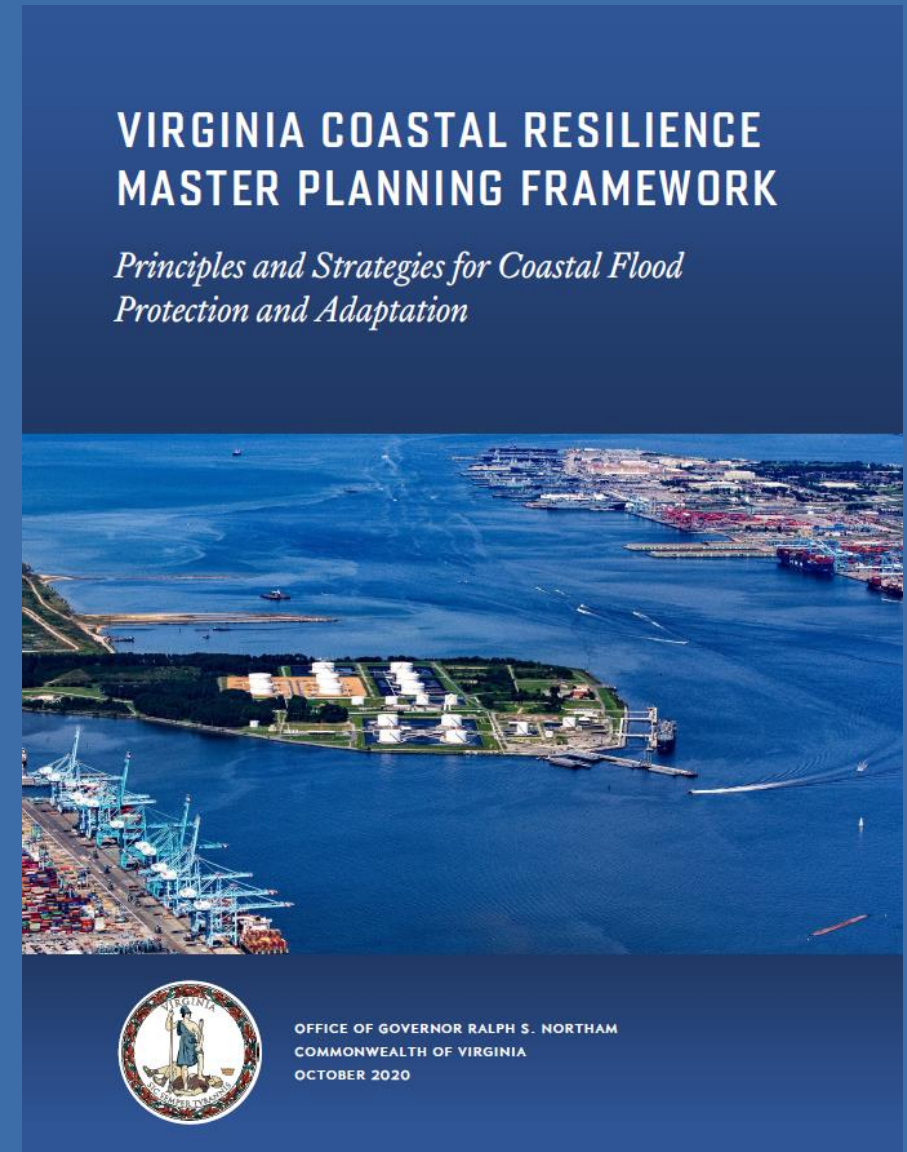


Funding



Guiding Principles

- Acknowledge climate change and its consequences, and base decision-making on the best available science.
- Identify and address socioeconomic inequities and work to enhance equity through coastal adaptation and protection efforts.
- Recognize the importance of protecting and enhancing green infrastructure like natural coastal barriers and fish and wildlife habitat by prioritizing nature-based solutions.
- Utilize community and regional scale planning to the maximum extent possible, seeking region-specific approaches tailored to the needs of individual communities.
- Understand fiscal realities and focus on the most cost-effective solutions for protection and adaptation of our communities, businesses and critical infrastructure.



Goals:

1. Identify and prioritize projects to increase the resilience of coastal communities, including both built and natural assets at risk due to flooding and sea level rise
2. Establish a financing strategy, informed by regional differences and equity considerations
3. Incorporate and promote climate change projections into Commonwealth's programs addressing coastal adaptation and protection
4. Coordinate state, federal, regional, and local coastal region adaptation and protection efforts

CRMP Contractor Team



Lead Consultant



THE WATER INSTITUTE
OF THE GULF®

Project Advisor



Outreach Lead
TAC Support
VA SWaM

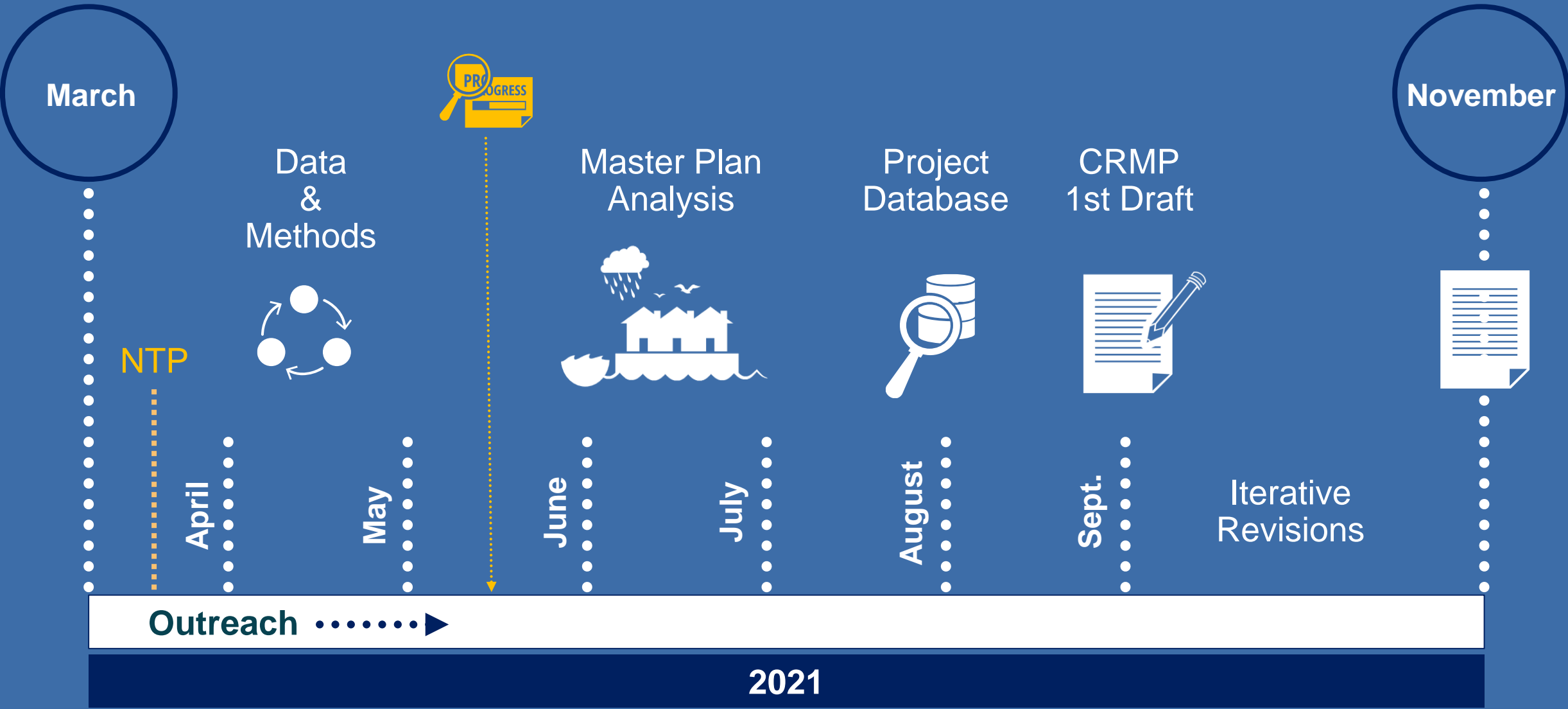


Technical Support
VA SWaM
U.S. SBA Mentor-
Protégé Program
with Dewberry

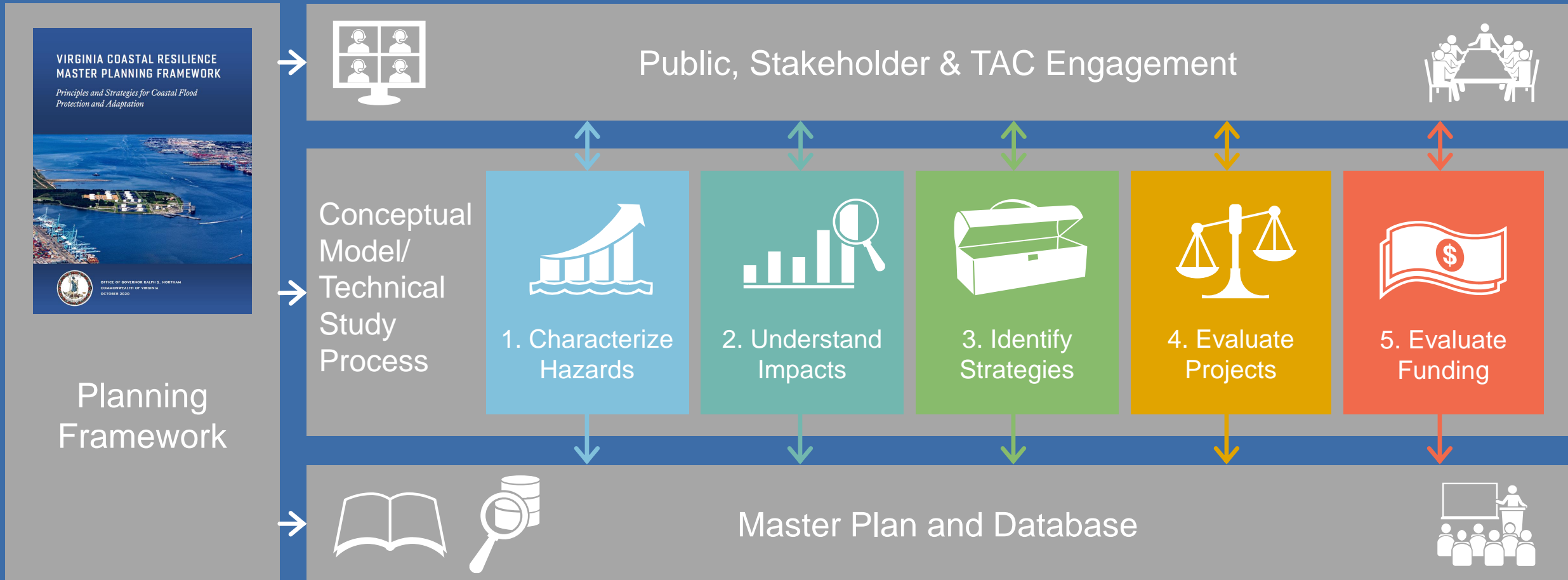


Outreach Support
VA SWaM

The Challenge:



Our Approach:



Hazards and Impacts

Multiple Flood Hazard Types



Tidal/Nuisance



Storm Surge



Precipitation

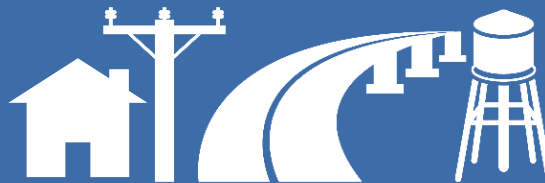
Range of Conditions



Impact Types



People
(Social Environment)



Structures
(Built Infrastructure)



Ecological Systems
(Natural Infrastructure)

Identify Strategies

- Project Definition
- Initial Screening
- Alignment of projects

Guiding CRMP principles

Acknowledge
climate
change

Reduce
socioeconomic
inequities

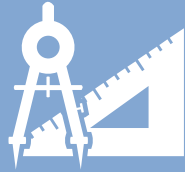
Prioritize
natural
infrastructure

Maximize
regional-scale
planning

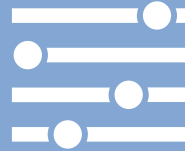
Prioritize
cost-effective
projects

Evaluate Projects

Approaches:



Quantitative
Assessment



Qualitative
Assessment



Expert
Evaluation



Participatory
Scoring

Key Factors:



Resilient
Design



Extent of
Benefits

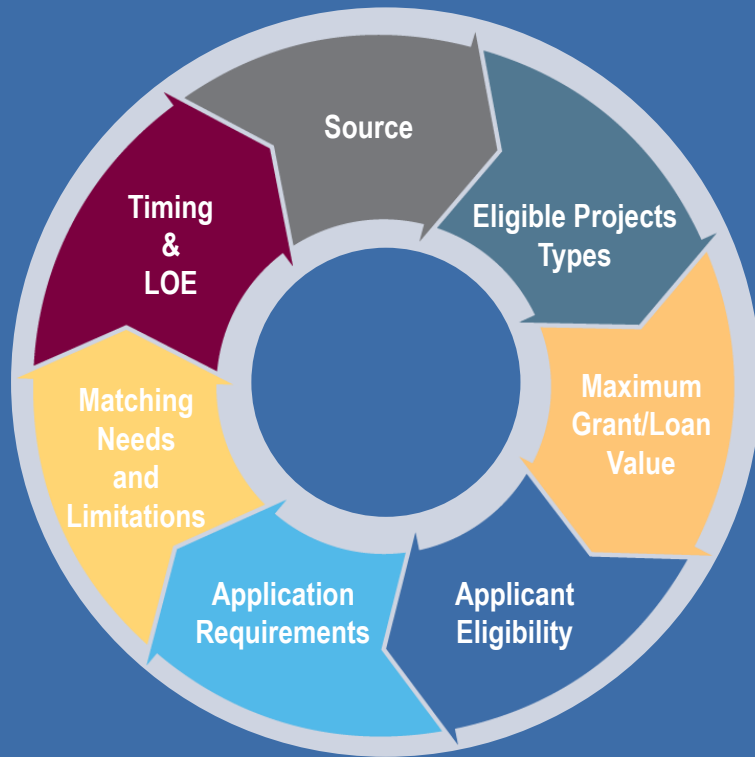


Equity



Implementability

Funding Analyses



Gap Analysis

Enhance Database

Equity
Considerations

Projects Funding
and Financing
Alignment

Finance
Mechanisms

TAC and
Subcommittee
Engagement

Master Plan and Outputs

- Anticipated Outputs:
 - Plan Document
 - Technical Appendices
 - Database/Web Application



Outreach and Engagement



Stakeholders

- Coastal Planning Districts
- Local governments
- Local businesses/industries
- Underserved Populations
- Tribes
- NPOs/NGOS
- General Public (residents seasonal/tourist populations)
- Federal/Military Stakeholders



Outreach Goals

- Build awareness
- Identify stakeholder hurdles and pressing needs
- Disseminate outcomes

Benefits

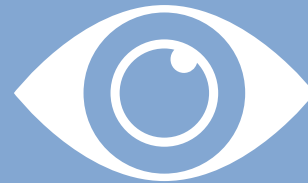
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Questions?