

**Office of Federal Coordinator for
Meteorology**

**Joint Action Group for Tropical
Cyclone Research**

***Interagency Strategic Research Plan
for Tropical Cyclones:
The Way Ahead***

Outline of Presentation

**Strategic Plan Framework / Systems
Engineering Approach**

Ms. Robbie Hood, NASA MSFC

**The Operational Hurricane Modeling
Perspective on the Role of Research**

Dr. Naomi Surgi, NCEP/EMC

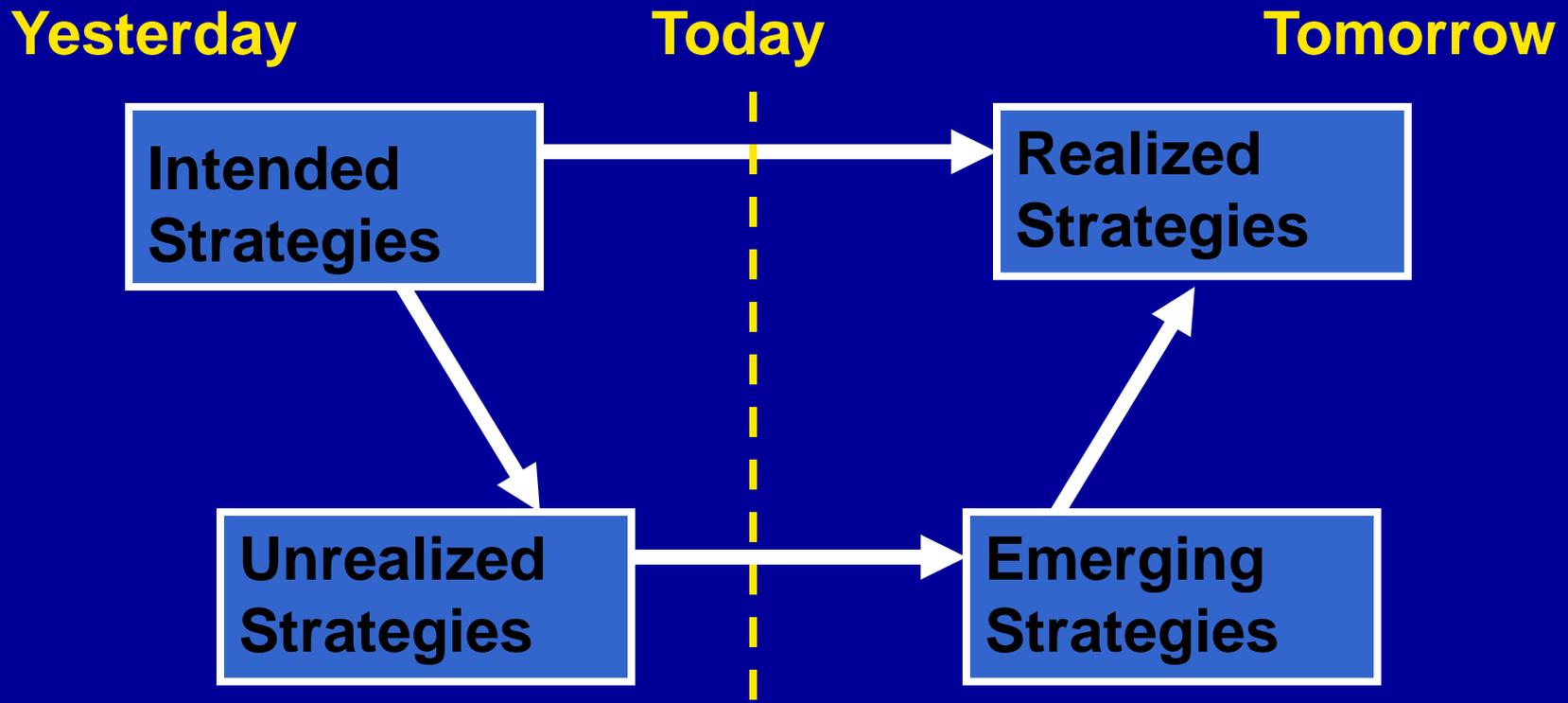
Recommended Research Priorities

Dr. Frank Marks, AOML/HRD

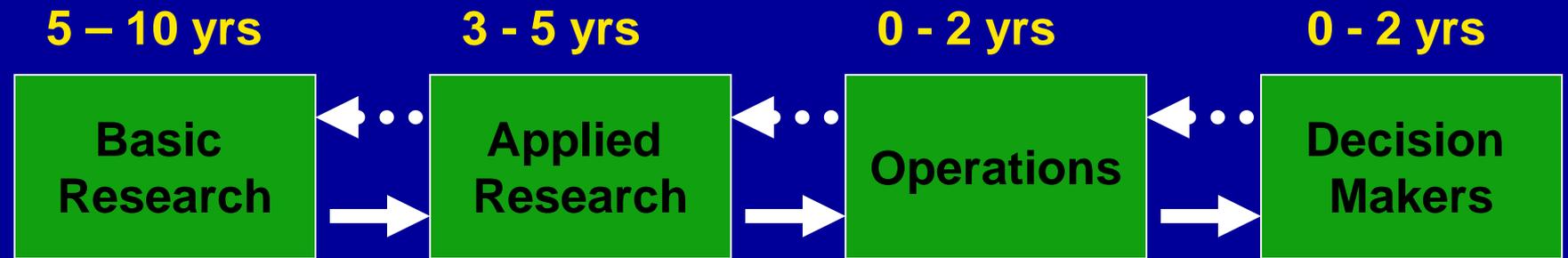
History of JAG / TCR

- **Interagency Tropical Cyclone Research Plan recommended at 58th IHC in 2004**
- **OFCM formed the Joint Action Group for Tropical Cyclone Research (JAG / TCR) in early 2005**
- **First JAG / TCR meeting in February 2005**
 - **Representatives from NSF, NOAA, NASA, Navy, Air Force**
 - **Frank Marks and Robbie Hood, Co-chairs**
- **Meeting overview presented at 59th IHC in 2005**
- **First draft of strategic plan compiled by JAG / TCR co-chairs and OFCM personnel**
- **Draft forwarded to full JAG / TCR for comment a few weeks ago**
- **Full JAG / TCR will seek to finalize strategic plan in coming months**

Build upon previously vetted strategies



Diverse Missions of Tropical Cyclone Community of Practice



NSF

DOD

DOD

DOD

USGS / DOI

FEMA

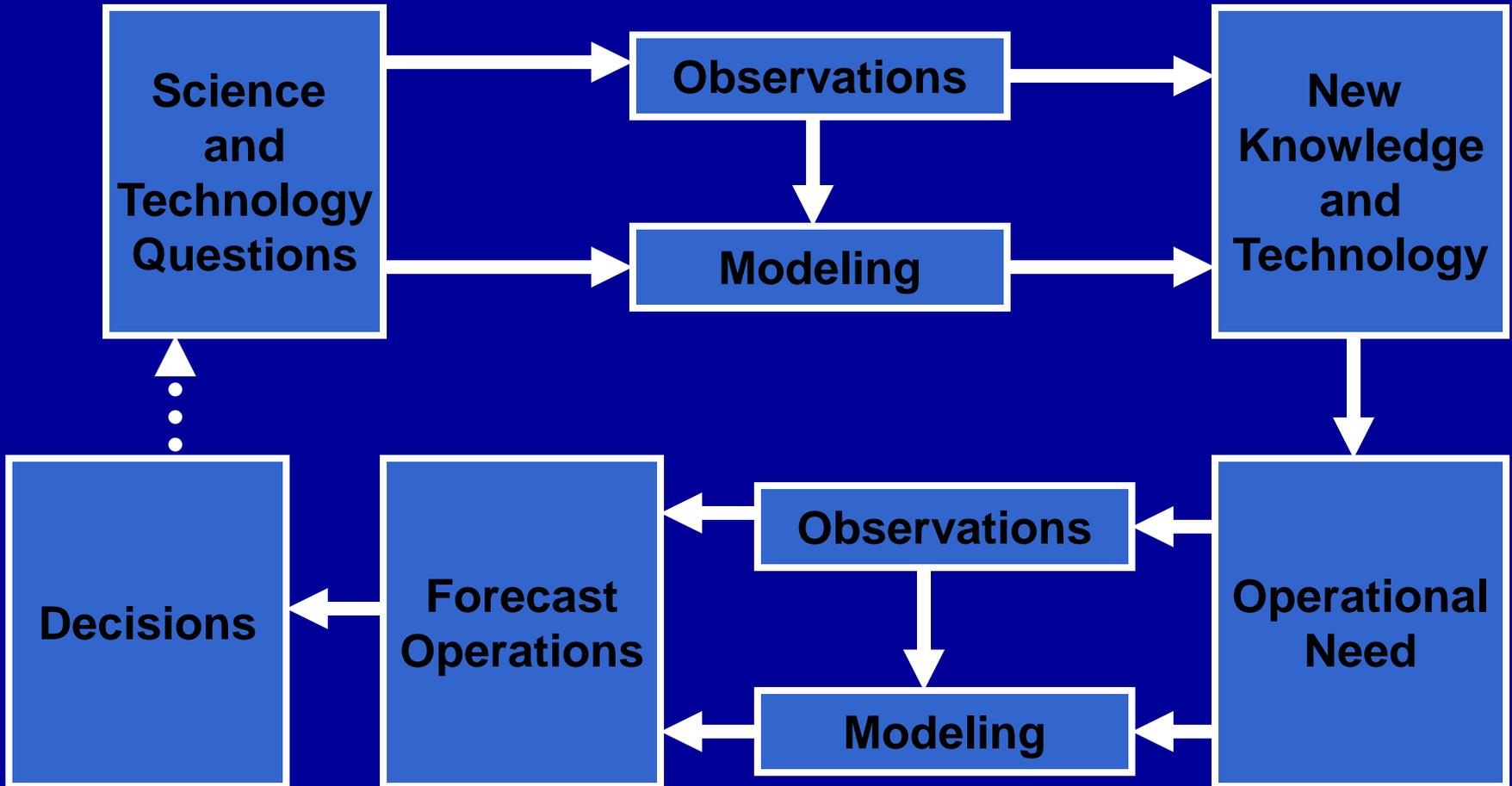
NASA R &A

NASA App.

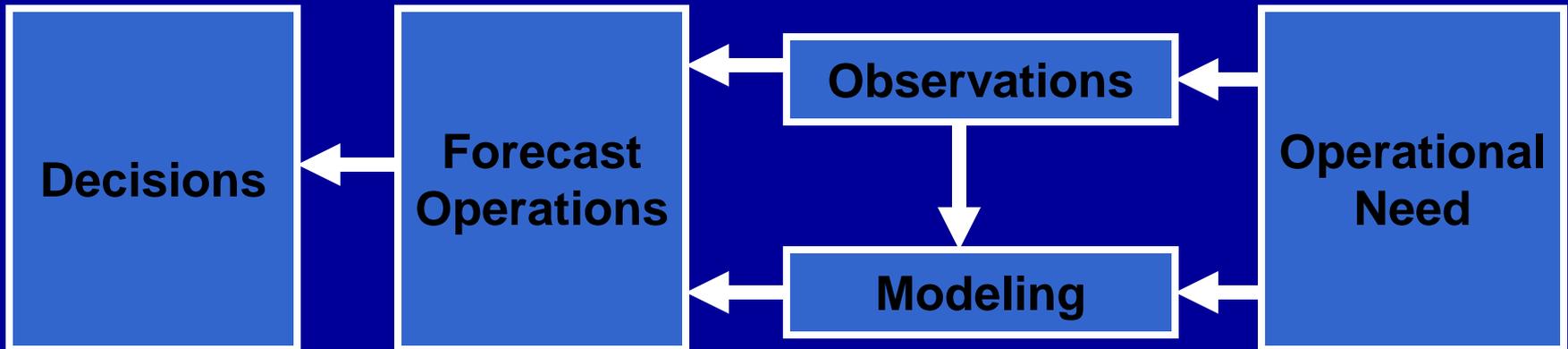
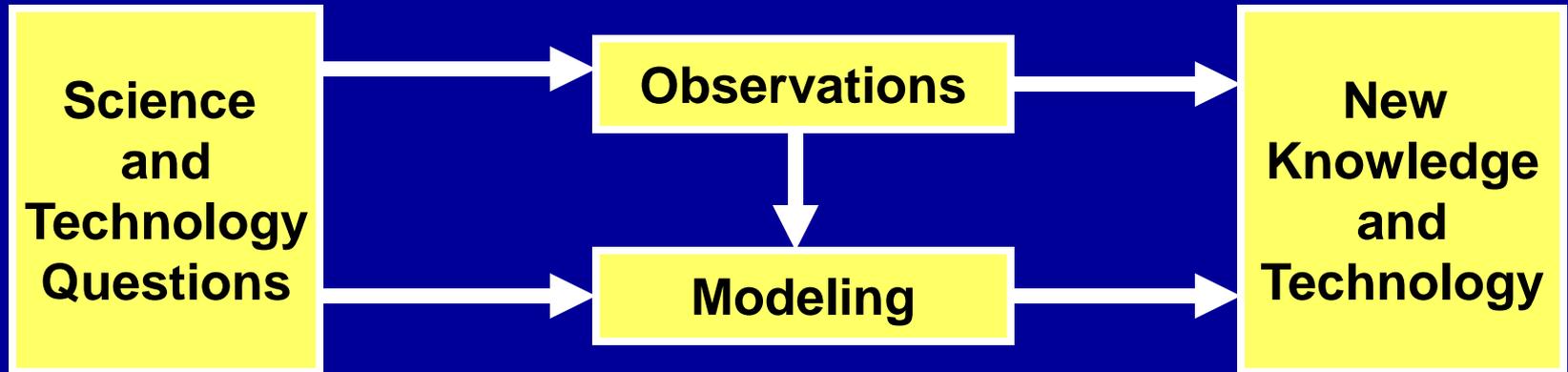
NOAA Res.

NWS

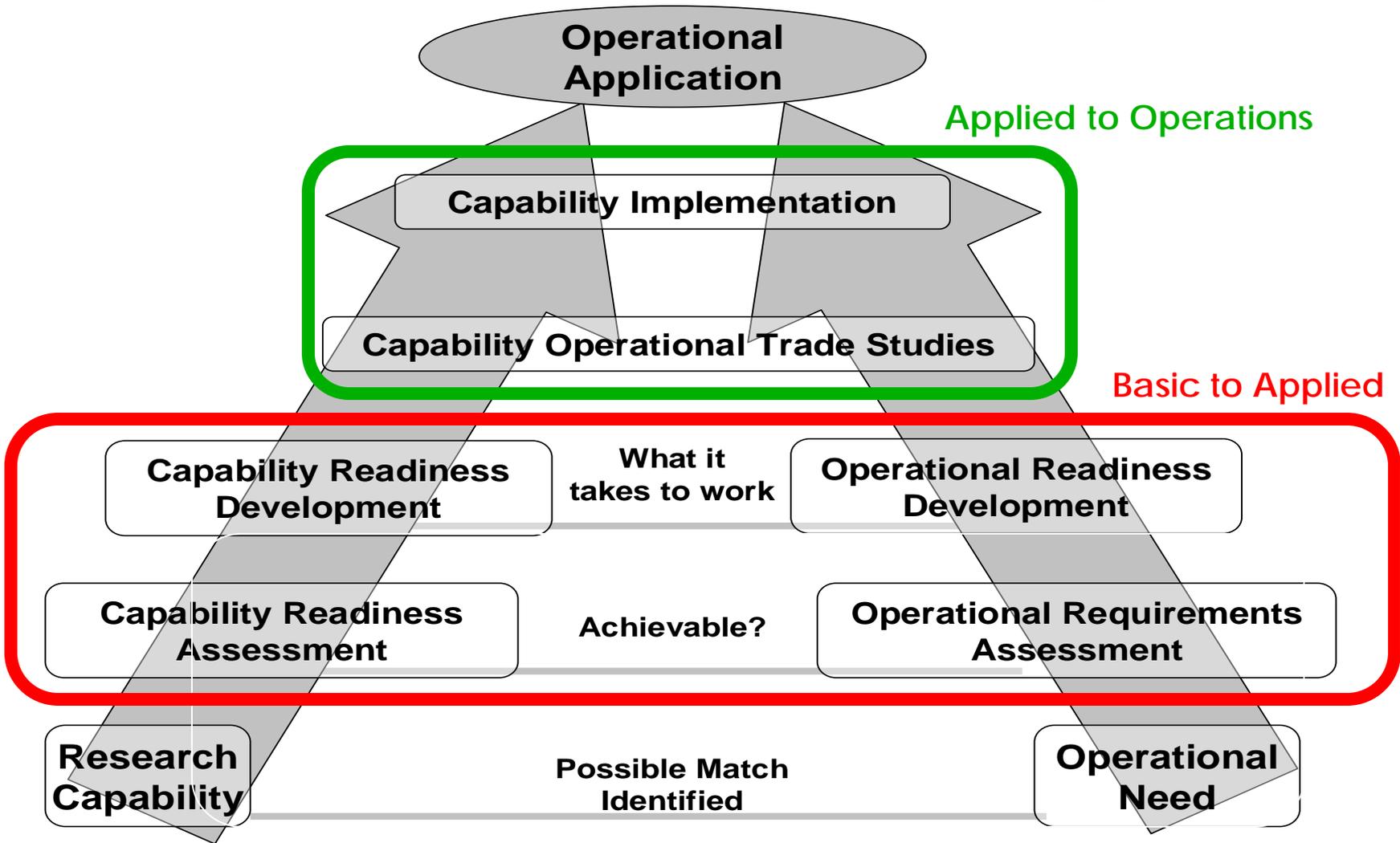
Research to Operation Transition (Closed System)



Research to Operation Transition (Community System)



Research to Operations Process Diagram



Framework of Strategic Plan

- **Build upon previously vetted strategies**
- **Acknowledge diverse mission of partners contributing to Tropical Cyclone Community of Practice (TC CoP)**
- **Adopt a systems approach**
 - **Create awareness of stakeholder needs across entire CoP**
 - **Facilitate communication by developing common vocabulary**
 - **Design avenues to match research capabilities to stakeholder needs**
 - **Articulate operational performance metrics and research to operation evaluation process**
 - **Maintain traceability of successful interagency research to operations transitions**

Inputs for Reports

- **Joint Agency Group for Tropical Cyclone Research (JAG/TCR) will seek to finalize Interagency Strategic Research Plan during next few months**
- **Comments and input are welcome**
- **Send comments and input to:**
Frank.Marks@noaa.gov Mark.Welshinger@noaa.gov
Robbie.Hood@nasa.gov Robert.Dumont@noaa.gov

Issues to Consider

- **Communicating operational requirements to basic research community**
- **Communicating performance metrics as well as verification and validation procedures**
- **Building stronger bridges between basic and applied research communities**
- **Providing traceability of basic research results through the research to operations pipeline**
- **Opening discussions to long-term planning**