



NAVIGATING KNOWLEDGE: FROM MISSISSIPPI TO MALAYSIAN WATERS



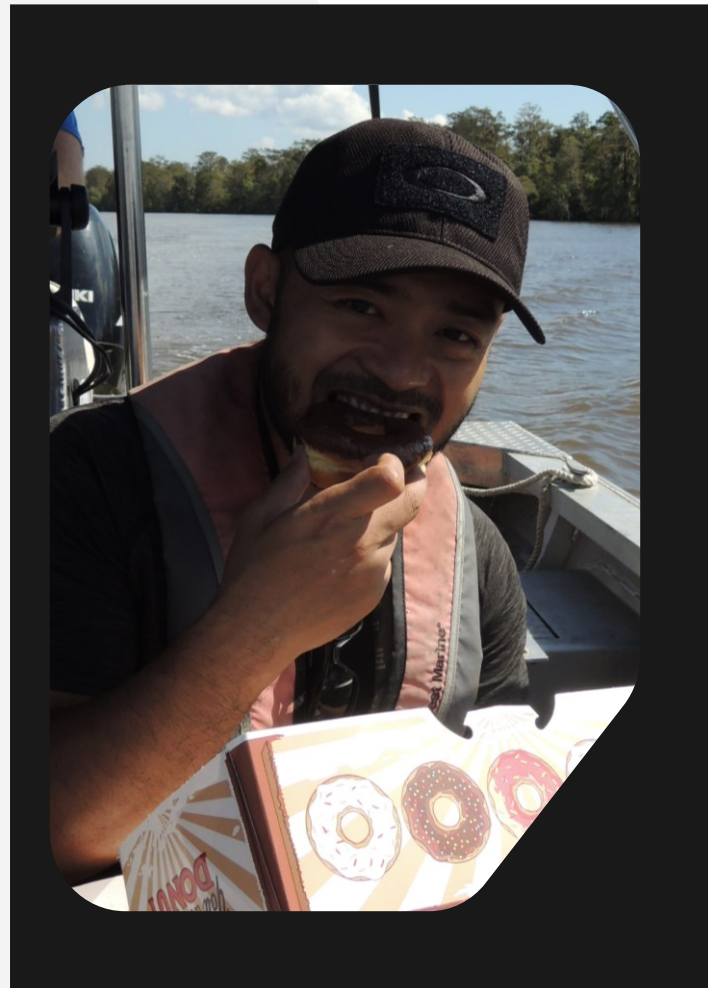
**ALUMNI WORKSHOP OF IHO-ROK CATEGORY "A" PROGRAMME AT THE USM, USA
(BUSAN, 12 – 14 SEPTEMBER 2023)**

SCOPE

- ▶ Introduction
- ▶ Study Experience
- ▶ Challenge and Growth
- ▶ Real-World Application
- ▶ Impact on Hydrographic Practice in Malaysia
- ▶ Takeaways

PERSONAL INFORMATION

LT CDR MOHD MASSUOADI BIN MOHD ZUKRI RMN, USM (2018 – 2019)



Adi,

Nationality: Malaysia

Age: 35

Position: SO Hydrographic Operation

Office: NHC of Malaysia

Career: Naval Officer (2006 – present)

Favorite things



About me

"a professional minded who enjoys teamwork while highly capable in independent efforts and thus committed to performance.

Determined, disciplined, firm but fair and goal-oriented."

STUDY EXPERIENCE

Program Goal

- Equip students with knowledge, skills, and expertise in hydrography

Focus

- Coastal and marine environment understanding

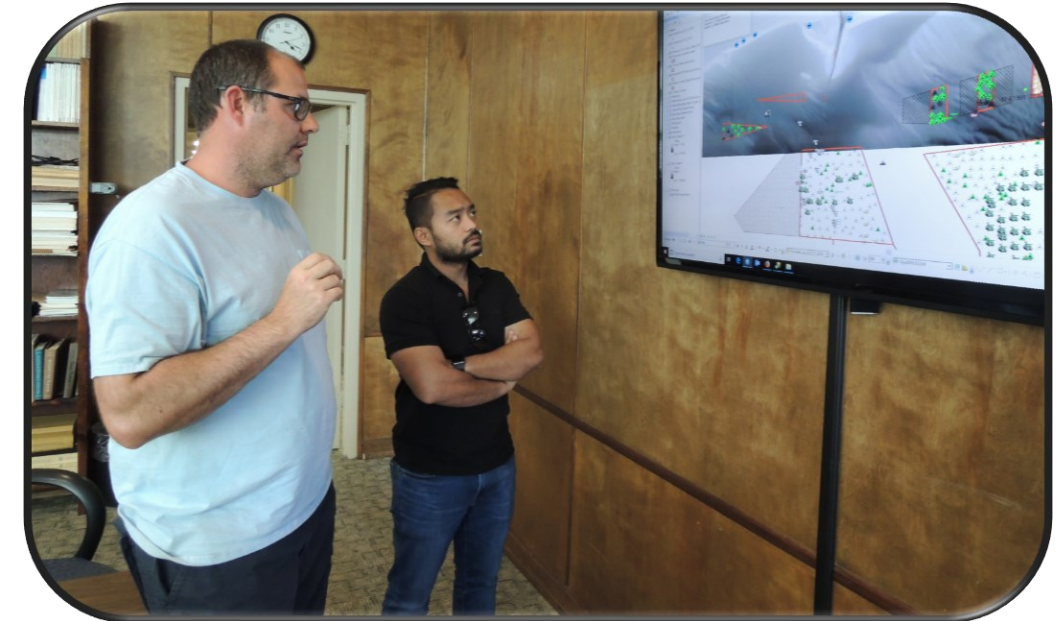
Key Learnings

- Hydrographic surveying, data analysis, chart production
- Empowered to contribute to Malaysia's coastal resource management and navigation safety
- Aligned with IHO's mission for global navigation safety and marine environment protection.



STUDY EXPERIENCE

- ▶ Unique learning experience



CHALLENGES AND GROWTH

Significance of challenges and opportunities for personal and professional growth

- Mastery of advanced technical and scientific concepts in hydrographic surveying
- Intense dedication and commitment required

Emphasis on effective teamwork and communication skill

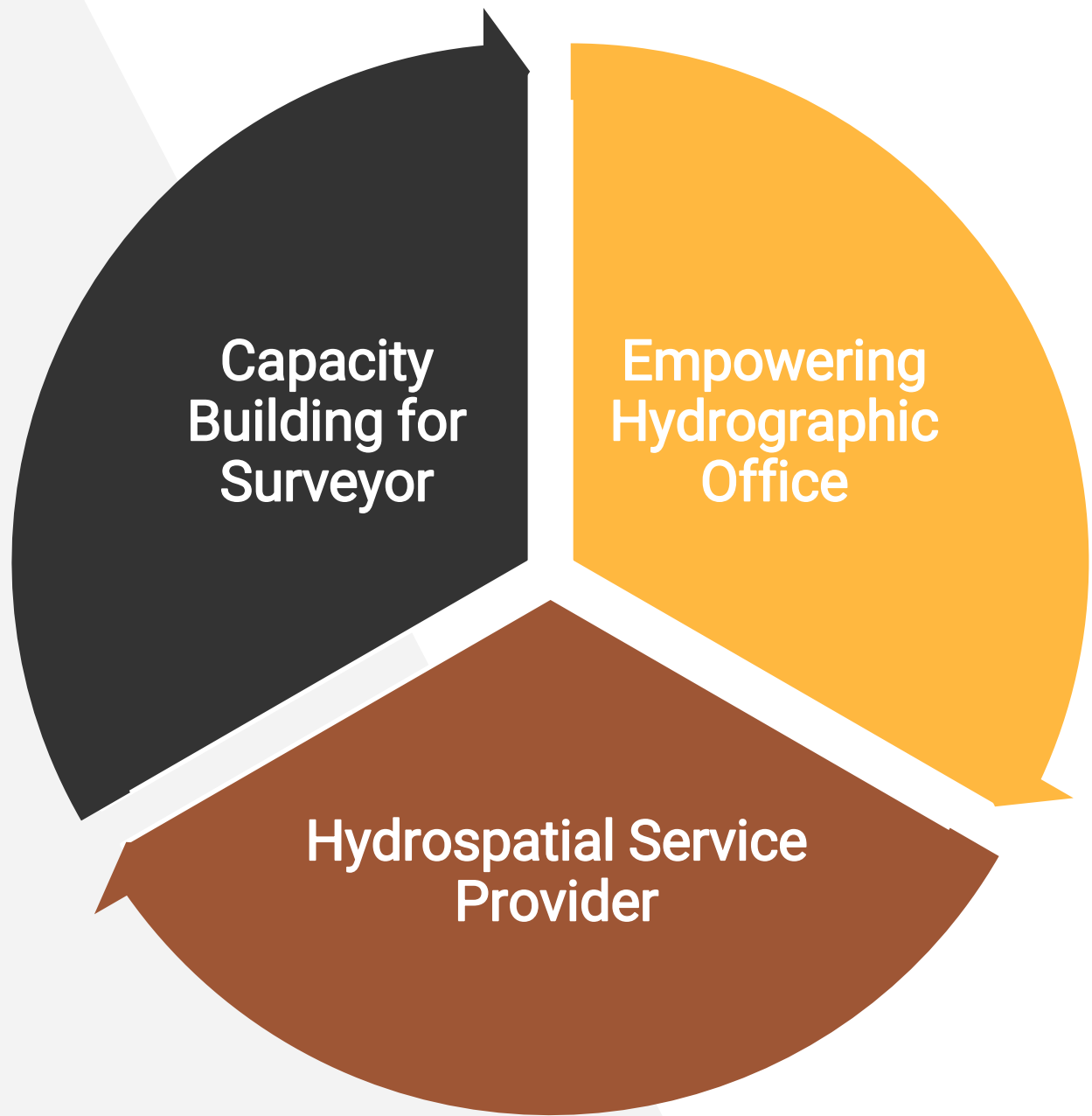
- Collaboration with peers from diverse backgrounds
- Growth through overcoming challenges

Equipped with expertise for complex hydrographic projects

- Nurtured resilience, problem-solving abilities, and adaptability
- Essential qualities for success in hydrography



REAL-WORLD APPLICATIONS



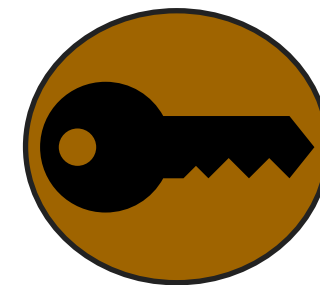
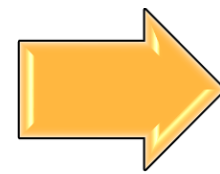
REAL-WORLD APPLICATIONS

▶ Empowering Hydrographic Office



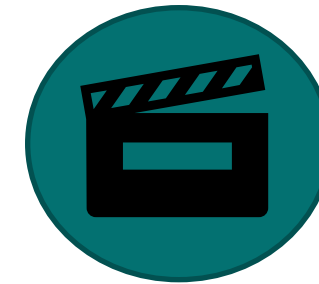
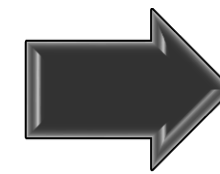
CHALLENGES

- Outdated technology
- data gaps
- limited resources



SOLUTION

- Advocate for funding
- modernize surveying methods



IMPLEMENTATION

- Engage with stakeholders
- integrate advanced equipment

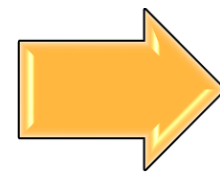
REAL-WORLD APPLICATIONS

Hydrospatial Service Provider



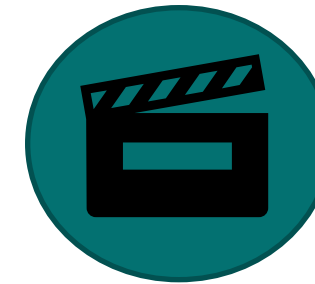
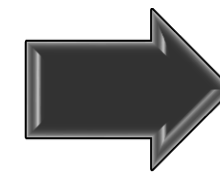
CHALLENGES

- Market competition
- Changing customer demands
- Data quality



SOLUTION

- Innovate services
- offer value-added solutions
- invest in R&D



IMPLEMENTATION

- Expand service offerings
- target diverse clientele
- showcase expertise

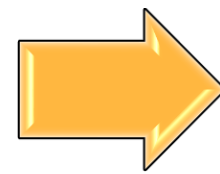
REAL-WORLD APPLICATIONS

▶ Capacity Building for Surveyor



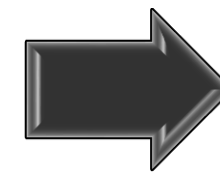
CHALLENGES

- Recruitment
- Training
- Competency



SOLUTION

- Comprehensive programs
- collaboration with institutions
- international certification



IMPLEMENTATION

- Structured training
- Partnerships
- Continuous professional development

IMPACT ON HYDROGRAPHIC PRACTICE IN MALAYSIA

► The state of hydrography practice

CHALLENGES:

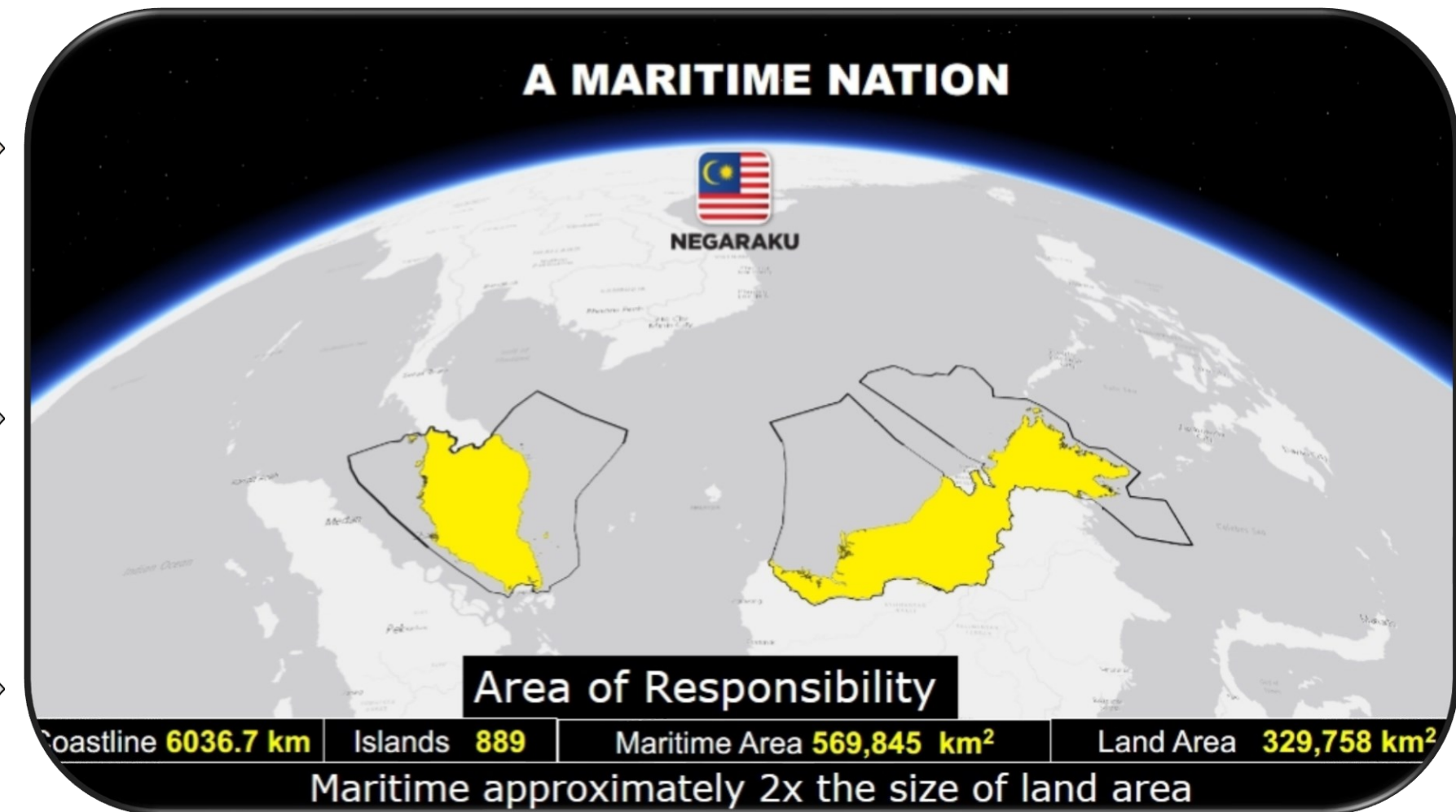
- Outdated methods
- Limited data coverage

TRANSFORMATION:

- Improved data accuracy, coverage, and timeliness

IMPACT:

- Elevated navigational safety
- Efficient maritime operations
- Support for maritime development



IMPACT ON HYDROGRAPHIC PRACTICE IN MALAYSIA

Collaboration and Training

Collaboration: Engagement with regional and global hydrographic organizations

Knowledge Exchange: Joint research projects, capacity-building initiatives

Impact: Strengthened capabilities, global recognition, and ongoing advancements in hydrographic practice



Integration of Knowledge

Integration: Advanced surveying technologies, data processing, environmental considerations

Holistic Approach: Contribution to navigation safety, coastal zone management, and environmental protection

Evolution: Hydrography as a multifaceted discipline serving navigation and resource conservation

IMPACT ON HYDROGRAPHIC PRACTICE IN MALAYSIA

Recognition and Influence

Boundary delimitation

IHO FIG CAT A & B Instructor

IHO – ROK Alumnus



IMPACT ON HYDROGRAPHIC PRACTICE IN MALAYSIA

Future prospects

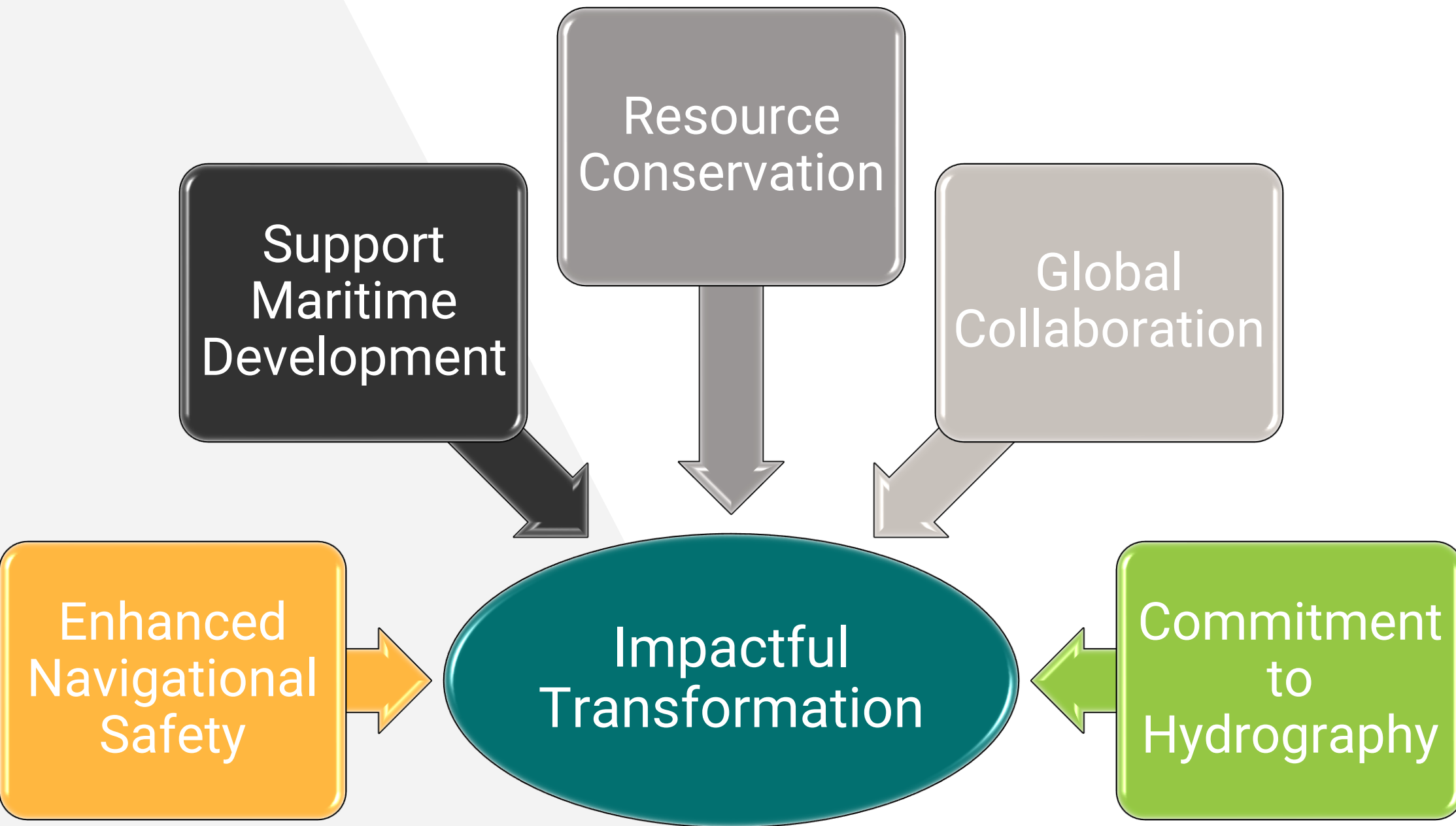
Hydrospatial Advocate

IGA Collaboration

Autonomous Concept



TAKEAWAYS



THANKS!

Any questions?

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