



Academic and Research Institutions in support of the Minamata Convention

a new way of working at the Research Triangle Area in North Carolina

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2"

1. Problem Identification & Methodology

2"

2. Duke GOLD – Capacity – Action

1"

3. Moving Forward – Support Art 7 Impl.

Client

- Government of Peru – Ministry of Environment (Key Stakeholder)
- Commissioning - Duke University - National Aeronautics and Space Administration NASA – Amazonas SERVIR HUB –18-SERVIR18-0025, project – Hydrology and health in the Western Amazon: monitoring risks of contamination and infectious disease.

Policy Question

*What **policies** could NASA-SERVIR project team put forth to the Government of Peru in order to **integrate Mercury Science with Policy & Decision-Making** for better informed operationalization of responses to human and environmental risks, derived from the use of Mercury (Hg) in small, artisanal or illegal gold mining in the Peruvian Region of Madre de Dios?*



Problem Definition

A **Insufficient environmental management and monitoring** of activities related to ASGM

B **Fragmented** public health, social policy or environmental **interventions**

C **Scattered Mercury research and policy activities:** lack of shared knowledge and need for multilayered, cross-sectoral arrangements and interdisciplinary actions.

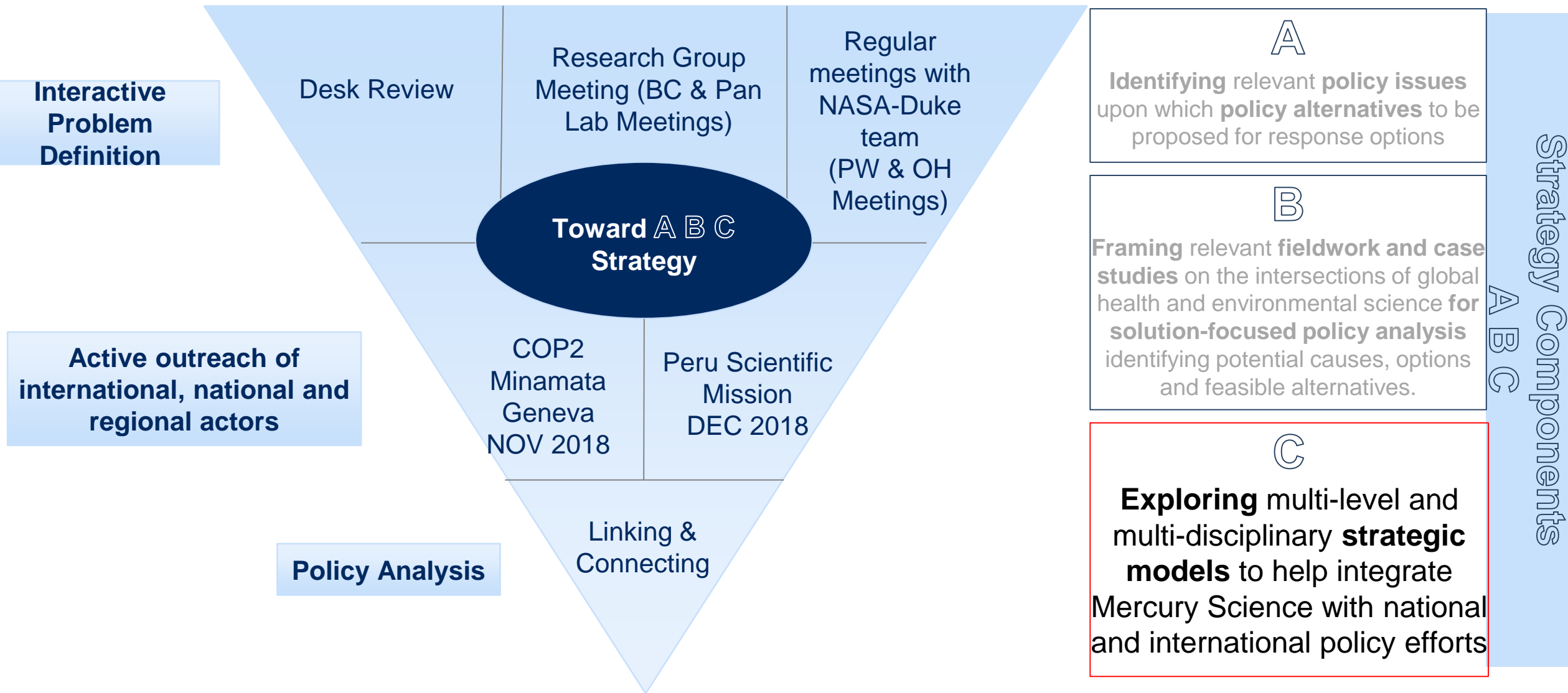
Strategy

A **Identifying** relevant **policy issues** upon which **policy alternatives**

B **Framing** relevant **fieldwork and case studies** on the intersections of global health and environmental science **for solution-focused policy analysis**

C **Exploring** multi-level and multi-disciplinary **strategic models** to help integrate Mercury Science with national and international policy efforts

Research Methodology - Strategy



Background → A New way of Working → Way forward

Desk Review - Recommendations

- **Improving the government capacity for environmental management and monitoring** toward full compliance with the Minamata obligations (Chen et al., 2018).
- **Increasing the whole-of-government as well as whole-of-sector capacities for inter-sectoral coordination** (ILO, 1999; MMSD, 2002; Barreto L., 2011).
- **Identifying and creating instances of integration between mercury science & research and policy & decision-making** (Chen et al., 2018, Driscoll C., 2013, and Gustin M. et al., 2016)

Consultations - Recommendations

1. Impact monitoring of exposure/presence both in health (vulnerable communities) and the environment

2. Capacity development -human resources for health with Hg focus (global health interventions)

3. Research on options -health/nutrition

4. Research on Hg cycle dynamics -environmental policy

Analysis - Recommendations

1. Mining practices and change of attitudes at local level:

- Training and sensitization campaigns
- Increasing in tandem with formalization process
- Communication strategy at grassroot level
- Improvement of labor good practices (safety)



NG RG Mid light

Bottom-Up

Short-Term

4. Implementation of Development - Long Term projects:

- Livelihood and development projects (tourism, agrobusiness, incentives system)
- Sustainable & Dignified labor
- Intensive liaison with cooperation and technical agencies and their implementer partners



NG RG Full Full

Bottom-Up

Long-Term



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Working together - ASGM Interdisciplinary Work

Duke teams and projects

Medical School

Nicholas School
of Environment

Sanford School of
Public Policy
MIDP - MPP

Pratt School of
Engineering

Trinity School

Global Health
Institute

Nicholas Institute
for Environmental
Policy Solutions

DUCIGS

CLACS

DUKE Global
Health Innovation
Center

Project activities

- Bass Connections
 - Environ Epi
 - Peru
 - Ghana
 - Indonesia (future)
- Catalyst Program
- NASA- SERVIR (
- PhD research
- Master's research
- Advisory role to governments and partners (MINAM (Mou), WWF, WB, PAHO)
- Health interventions
 - Mothers
 - Food baskets

Research – Training – Services – Technology & Innovation

SCHOOL

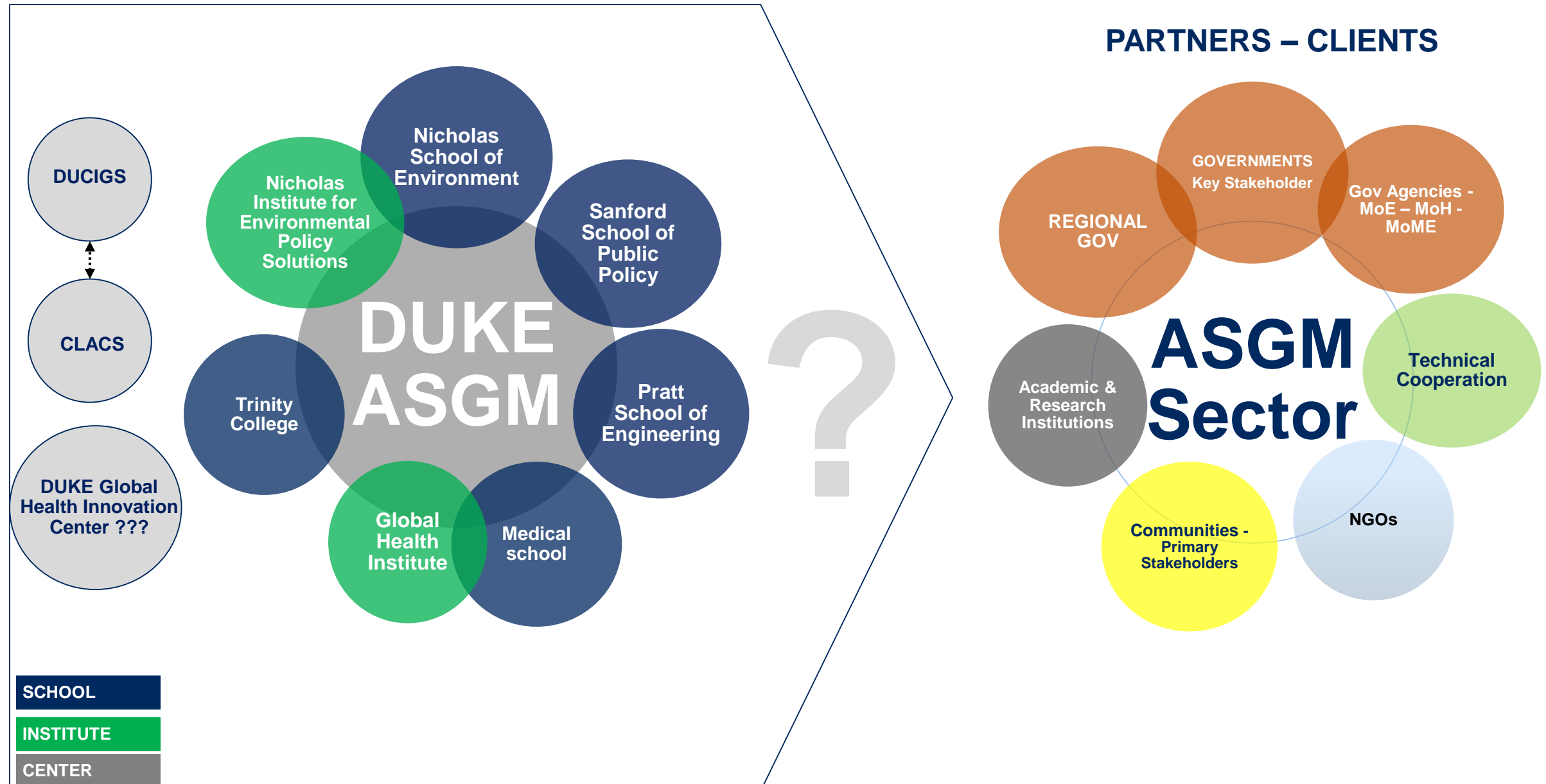
INSTITUTE

CENTER

Background → **A New Way of Working** → Way forward

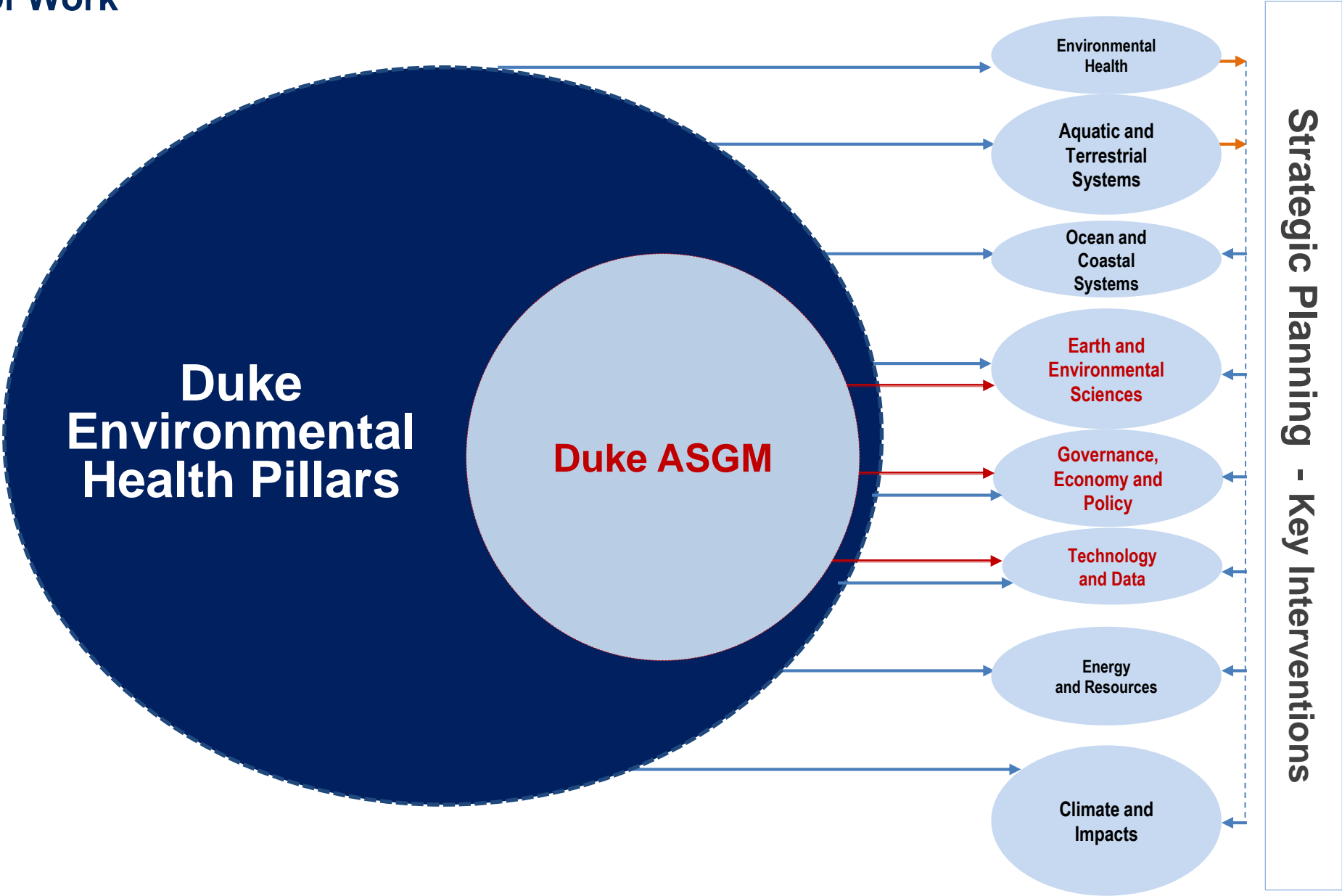
One-Duke approach on ASGM

How we can contribute to a sector in a more coherent manner towards Minamata Implementation ?

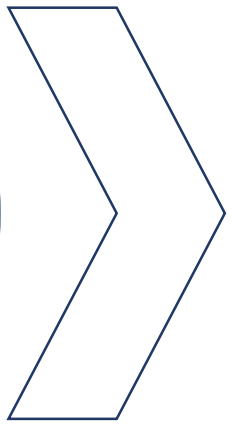
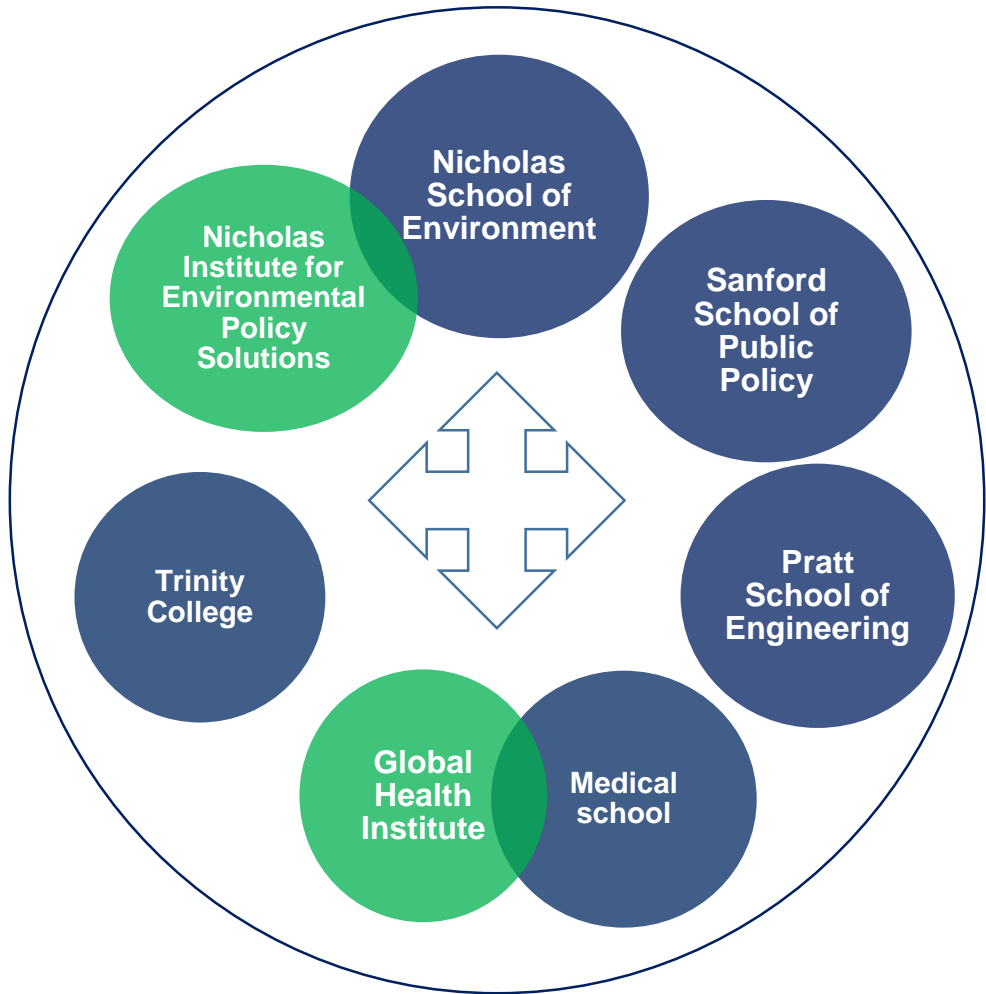


Background → **A New Way of Working** → Way forward

Duke Areas of Work



Materializing the **One-Duke Approach** and Positioning Duke as a Leader of a **Holistic Approach to Environmental Solutions**



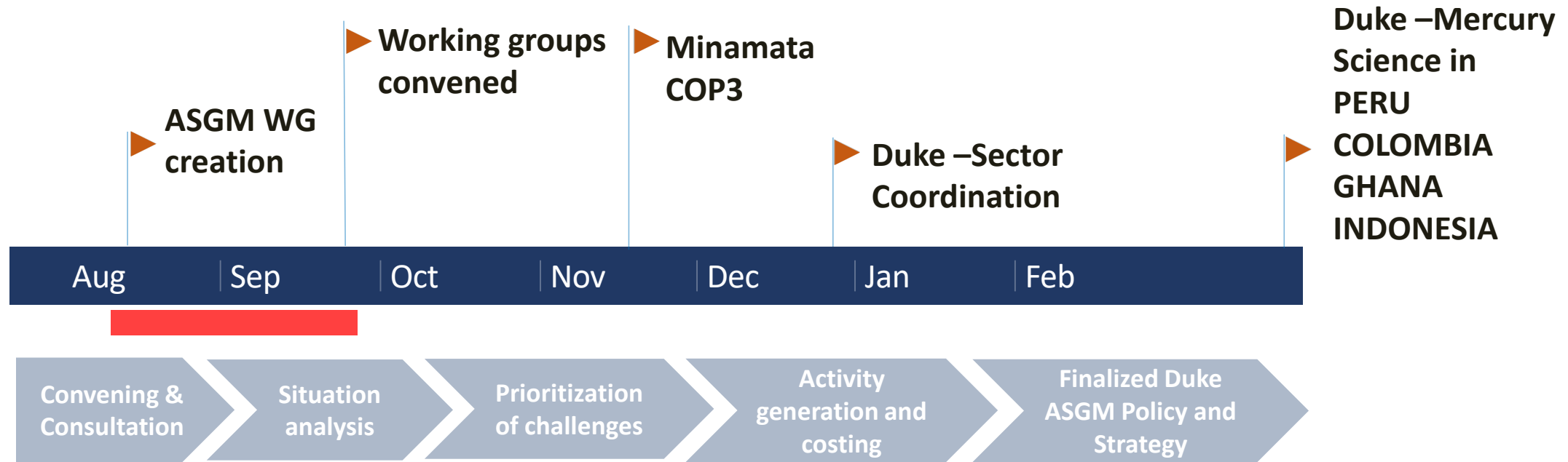
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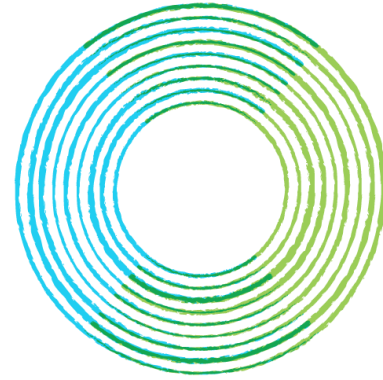
3. Moving Forward – Support Art 7 Impl.



The One-Duke ASGM strategic planning process will complement ongoing activities, including:

- Situational Analysis consultations
- Advise to MINAM on National Plans
- Schools and Institutes - Strategy and Policy development (NSOE – DGHI – other schools)





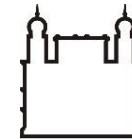
UNITED FOR A MERCURY FREE AMAZON

REGIONAL ALLIANCE TO REDUCE
THE IMPACTS OF GOLD MINING



FUNDACIÓN PARA LA CONSERVACIÓN
Y EL DESARROLLO SOSTENIBLE

Gaia Amazonas



FIUCRUZ
Fundação Oswaldo Cruz

Duke UNIVERSITY

