

NATURAL OR HUMAN INDUCED DISASTERS



Deepwater Horizon oil spill,
U.S. (2010) @U.S. Coast
Guard



Megatsun
Fjord, GRI
@r



Valencia flood disaster, SPAIN
(2024) @Alberto Saiz/AP

Escalating Sea Heatwaves
(Med. & Atlantic) (2022-)
@Copernicus



Fukushima Daiichi Nuclear
Wastewater Discharge,
(2011) @Getty Images

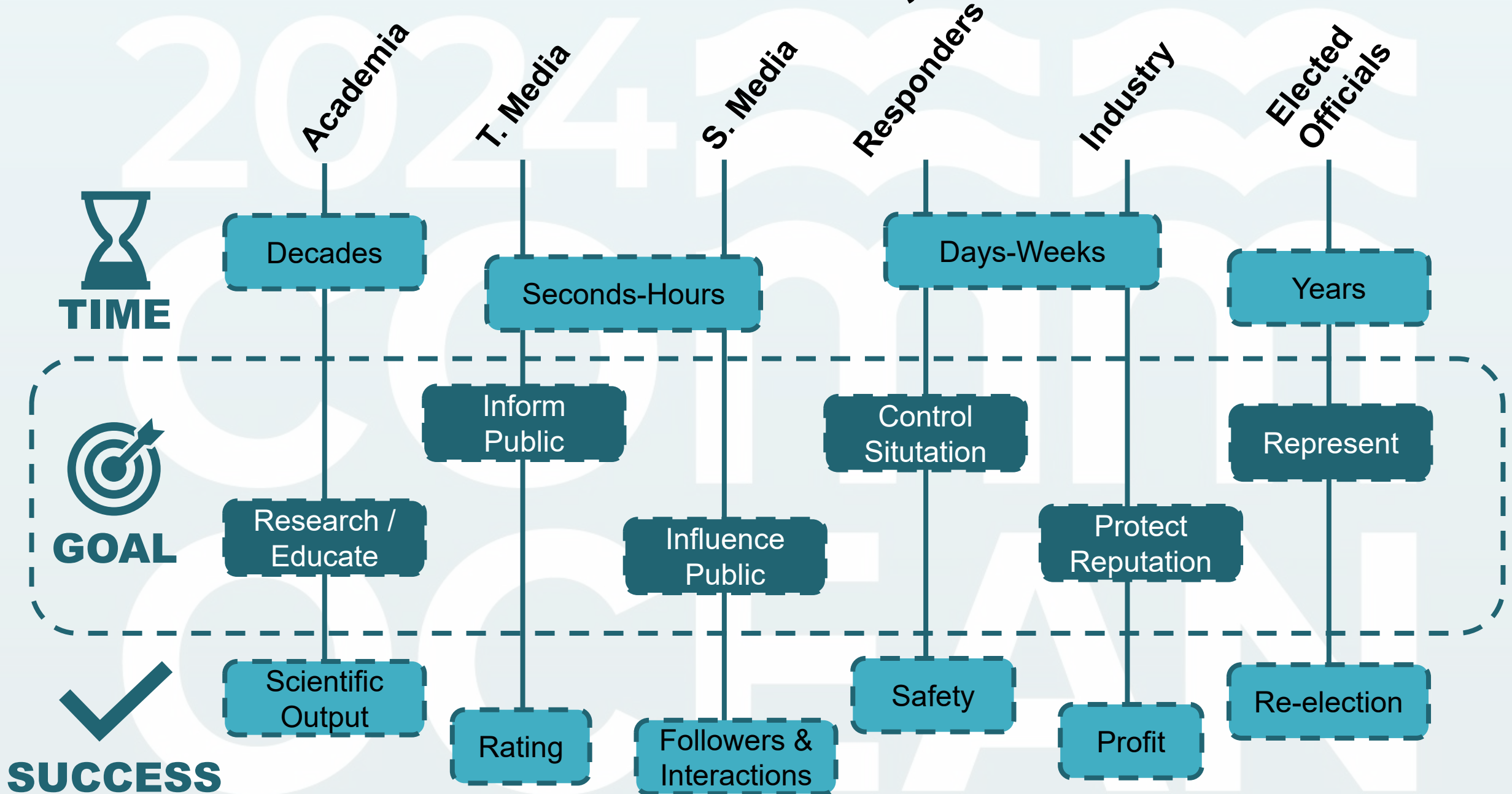


The M/V X-Press Pearl Nurdle
and Oil Spill, SRI LANKA
(2021) @Reuters



The Great Barrier Reef 7 Mass
Bleaching E., AUSTRALIA
(1998-) @Richard Vevers, OIB

EVERY ACTOR HAS DIFFERENT GOALS, NEEDS AND PRIORITIES



SCIENCE COMMUNICATION IN CRISIS / DISASTER

Crisis communication is characterized by urgency, directness and a heightened focus on actionable information

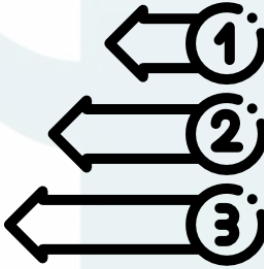
1. Objectives and Focus

- Emphasizes immediate understanding to aid decision-making, risk mitigation, and safety.
- Focuses on explaining cause, effect, and actionable responses to minimize harm.
- Reactive, responding to urgent events



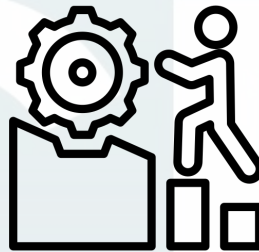
2. Needs and Priorities

- Clear and Accurate Information
- Transparency
- Empathy and Sensitivity
- Timely Communication
- Collaboration
- Real-Time Monitoring



3. Challenges

- Uncertainty and Evolving Information
- High Public Emotion and Anxiety
- Time Pressure
- Misinformation and Disinformation
- Diverse Audience Needs
- Accessibility Barriers



4. Methods & Tools

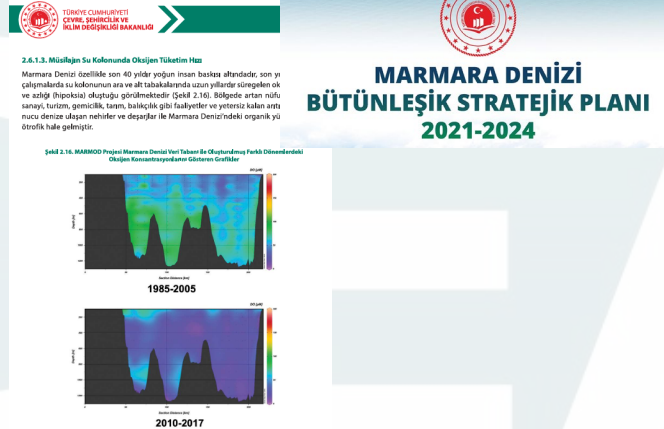
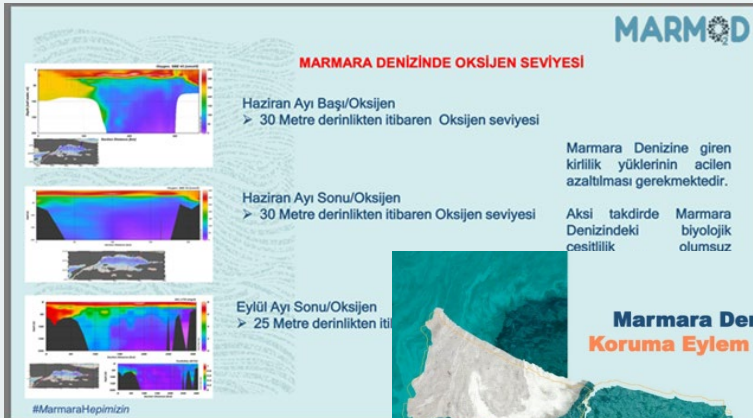
- Real-time channels like press briefings, social media, emergency alerts, and live broadcasts.
- Infographics, visual aids or maps to convey complex data visually under time constraints.
- Multilingual Communication
- Collaborative Platforms



SCIENCE COMMUNICATION STRATEGIES IN CRISIS: CASE STUDY

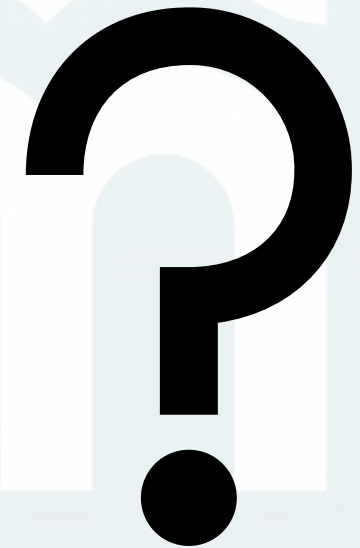
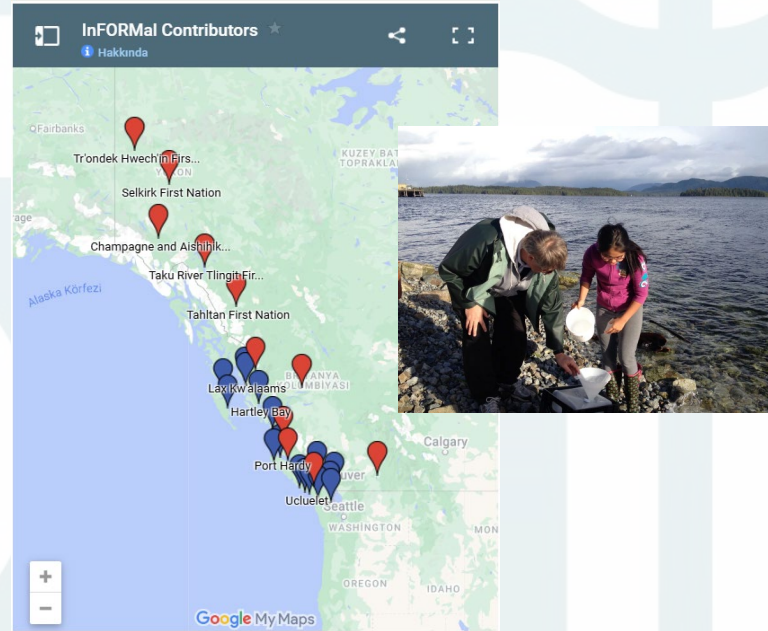
SEA SNOT, SEA OF MARMARA

- Governmental and Academic Engagement: e.g. press conferences, press releases
 - Visual Tools: e.g. Satellite images and underwater footages
 - Stakeholder Engagements: e.g. serious games



SCIENCE COMMUNICATION STRATEGIES IN CRISIS

GOOD PRACTICES



INTERNATIONAL COLLABORATION

WHOI Scientist, U.S. - Asha de Vos, marine Biologist collaborated with Sri Lanka in assessing the chemistry of these pellets to help responders prepare for the consequences of the spill.

Factsheets @Woods Hole Oceanographic Institution
Image @ Asha de Vos

CITIZENS SCIENCE

InFORMal scientists help monitor the levels of Fukushima contamination present in coastal marine waters and biota (salmon) across the ocean

@Fukushima Inform, CANADA

YOUR EXPERIENCE

**LEARNING FROM DISASTER TO AVOID A
DISASTER: HOW TO BETTER COMMUNICATE
OUR SCIENCE WITH DIFFERENT
STAKEHOLDERS IN TIMES OF CRISIS**

**INTERACTIVE SURVEY
&
OPEN DISCUSSION**



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