

**PROF. DR. ULRICH
BATHMANN**

**LEIBNIZ INSTITUTE FOR
BALTIC SEA RESEARCH
WARNEMÜNDE
IOW**

MEMBER OF DAM

DIGITAL OCEAN CONVENTION ROSTO
25.08.2021



...jointly by the German Marine science, the Federal and 5 Länder Governments

2018

Ankündigung im Koalitionsvertrag und Bestätigung durch die Bundeskanzlerin.

Mit unserem Programm „Zukunft der Arbeit“ wollen wir Antworten auf die Frage geben, wie die Arbeitswelt mit den neuen Technologien sinnvoll gestaltet werden kann. Hierzu wollen wir die modellhafte Erarbeitung neuer Arbeitsformen in regionalen Kompetenzzentren der Arbeitsforschung fördern.

Die Küsten-, Polar- und Meeresforschung wollen wir stärken und die Forschungsflotte weiter erneuern. Wir wollen das Meeresforschungsprogramm MARE:N weiterentwickeln und gemeinsam mit den Ländern eine Deutsche Allianz für Meeresforschung gründen.

Den Pakt für Forschung und Innovation (PFI) setzen wir ab dem jährlichen Aufwuchs von mindestens drei Prozent fort. Ziele und Instrumente zur Gleichstellung zwischen Männern und Frauen in Bildungseinrichtungen, Berufen und Unternehmen sowie in der Wissenschaftskommunikation. Vom Förderung der Geistes- und Sozialwissenschaften für wissenschaftliche und grundlagenorientierte Forschungsprojekte. Im Fokus unserer Förderung wird die Forschung zu Migration, zu Integration und zu gesellschaftlichem Zusammenhalt, zu Demokratie und Frieden, zu Konfliktursachen und -bewältigungsstrategien und die Förderung der kleinen Fächer stehen.

Koalitionsvertrag by CDU, CSU and SPD
(19. Legislaturperiode)

2019

4. Juli: Foundation in Berlin (13 members)



Foto: Dirk Eitzen/DAM

18. Juli: political start in Bonn



Foto: Hans-Joachim Rieke/BMBF

22 members (by May 2021)



3. März: DAM start in Berlin

MEMBERS & PARTNERS – „NORTHERN COUNTIES“

DAM

DAM is based on 22 leading German marine research institutions and 2 partner institutes:

- ~ **AWI** – Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung
 - ~ **BAW** – Bundesanstalt für Wasserbau*
 - ~ **BSH** – Bundesamt für Seeschifffahrt und Hydrographie*
 - ~ **BGR** – Bundesanstalt für Geowissenschaften und Rohstoffe*
 - ~ **CEN** – Centrum für Erdsystemforschung und Nachhaltigkeit, Universität Hamburg
 - ~ **DMM** – Deutsches Meeresmuseum Stralsund*
 - ~ **DSM** – Deutsches Schifffahrtsmuseum – Leibniz-Institut für Maritime Geschichte*
 - ~ **FRAUNHOFER** – Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
 - ~ **FZK** – Forschungszentrum Küste der Leibniz Universität Hannover und der Technischen Universität Braunschweig
 - ~ **GEOMAR** Helmholtz-Zentrum für Ozeanforschung Kiel
 - ~ **HEREON** – Helmholtz-Zentrum Hereon
 - ~ **ICBM** – Institut für Chemie und Biologie des Meeres an der Carl von Ossietzky Universität Oldenburg
 - ~ **IOW** – Leibniz-Institut für Ostseeforschung Warnemünde
 - ~ **KMS** – Kiel Marine Science an der Christian-Albrechts-Universität zu Kiel
 - ~ **MARUM** – Zentrum für Marine Umweltwissenschaften der Universität Bremen
 - ~ **MPI-M** – Max-Planck-Institut für Meteorologie
 - ~ **MPI-MM** – Max-Planck-Institut für Marine Mikrobiologie
 - ~ **MTS** – Department Maritime Systeme, Universität Rostock
 - ~ **SNG** – Senckenberg am Meer, Senckenberg Gesellschaft für Naturforschung
 - ~ **THÜNEN** – Johann Heinrich von Thünen-Institut, Bundesforschungs-institut für Ländliche Räume, Wald und Fischerei
 - ~ **UG** – Universität Greifswald
 - ~ **ZMT** – Leibniz-Zentrum für Marine Tropenforschung
 - ~ **DIE** – Deutsches Institut für Entwicklungspolitik
 - ~ **IASS** – Institut für transformative Nachhaltigkeitsforschung
- * assoziierte Mitglieder



Duties & Expectations



Statutes

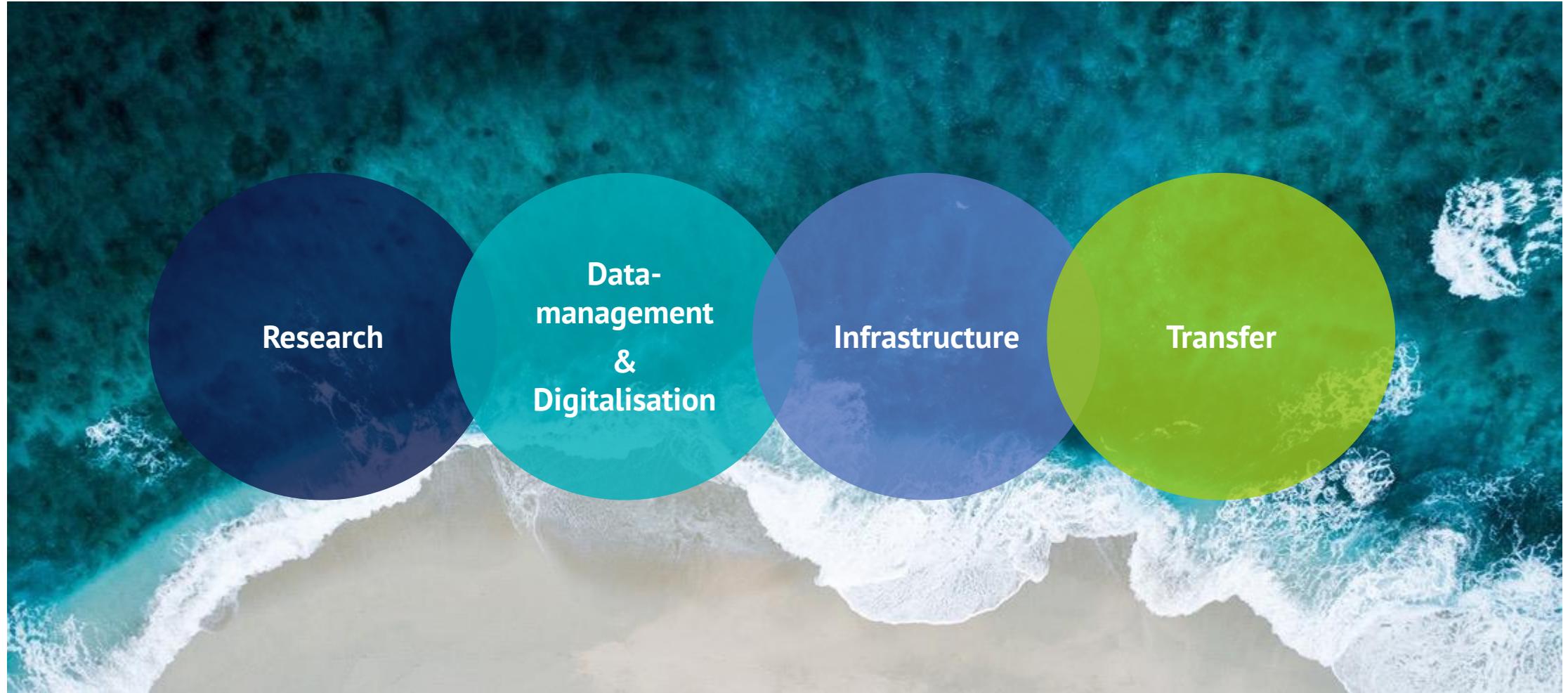
The **German Alliance for Marine Research (DAM)** aims to address the **major future issues** of marine research through joint action and **to provide action knowledge** for a **sustainable use of the ocean** for politics, economy and civil society.

Mission Statement - "Protection & Sustainable Use"

The German Alliance for Marine Research strengthens **the sustainable use of oceans and seas** through research, data management & digitalization, infrastructures and knowledge transfer.

FOUR CORE ACTIVITIES

DAM

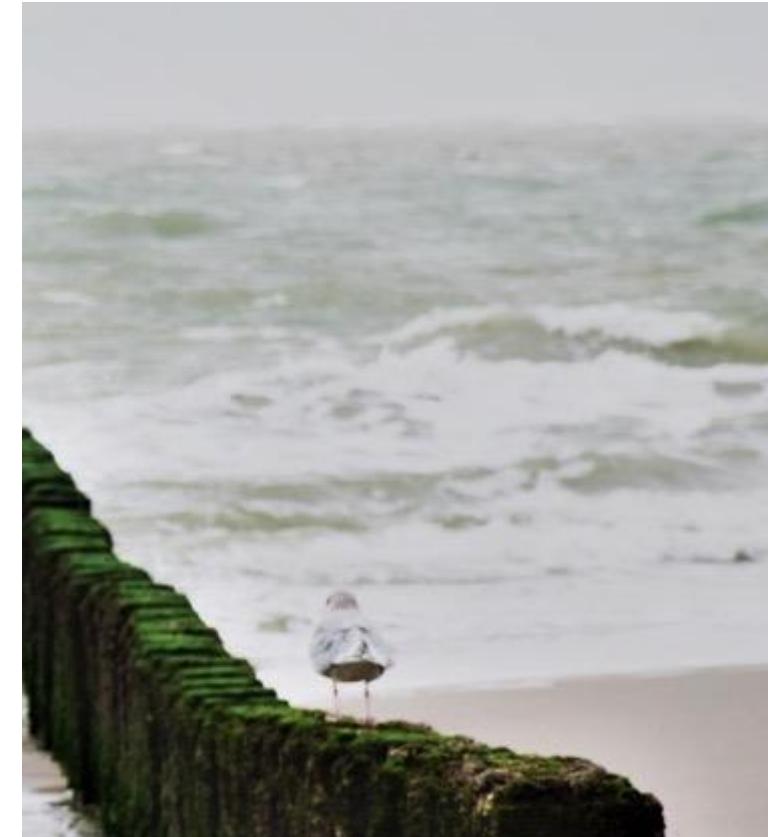


CORE ACTIVITY RESEARCH

DAM

Knowledge for decisions

- ~ DAM develops and coordinates **solution-oriented** research missions on **current, socially relevant issues**, in which science-based decision-making options for sustainable management of the coasts, seas and oceans are elaborated.
- ~ **Research missions** are **long-term research projects** along the thematic priorities of the German government's MARE:N research program.
- ~ The selection and implementation of the research missions takes place in **exchange with stakeholders** (including GMT).



CORE ACTIVITY DATA MANAGEMENT & DIGITALISATION

DAM

Strategies for marine research

- ~ Together with its member institutions, DAM is developing an **integrated and reliable data management concept for the research landscape**.
- ~ It supports open and uniform access according to the **FAIR principles** (findable, accessible, interoperable, reusable).
- ~ The goal is to **generate added value for science and innovation** through open access and integration of quality-assured research data across disciplinary boundaries. This is done taking into account the activities of the National Research Data Infrastructure (NFDI).



CORE ACTIVITY INFRASTRUCTURES

DAM

Concepts for efficient use

- ~ With its research ships and stations, underwater vehicles, observatories and aircraft, German marine research has unique research infrastructures at its disposal.
- ~ To enable **efficient use** of these infrastructures, DAM is developing **overarching utilization and operational concepts**.
- ~ The operation of the infrastructures remains the responsibility of the facilities.



CORE ACTIVITY TRANSFER

DAM

Making knowledge effective

The transfer of scientific knowledge into **politics, economy and society** is the essential strategic principle for DAM with the objective to strengthen the sustainable use of coasts, seas and oceans.

Added value: DAM bundles the expertise of German marine research in a **demand-oriented manner** and ensures knowledge exchange that is **appropriate for the target group**.

4 fields of action for knowledge transfer (according to the administrative agreement)

- Knowledge exchange with stakeholders, policy advice
- Dialogue with society, participation
- Promotion of young scientists
- Capacity development

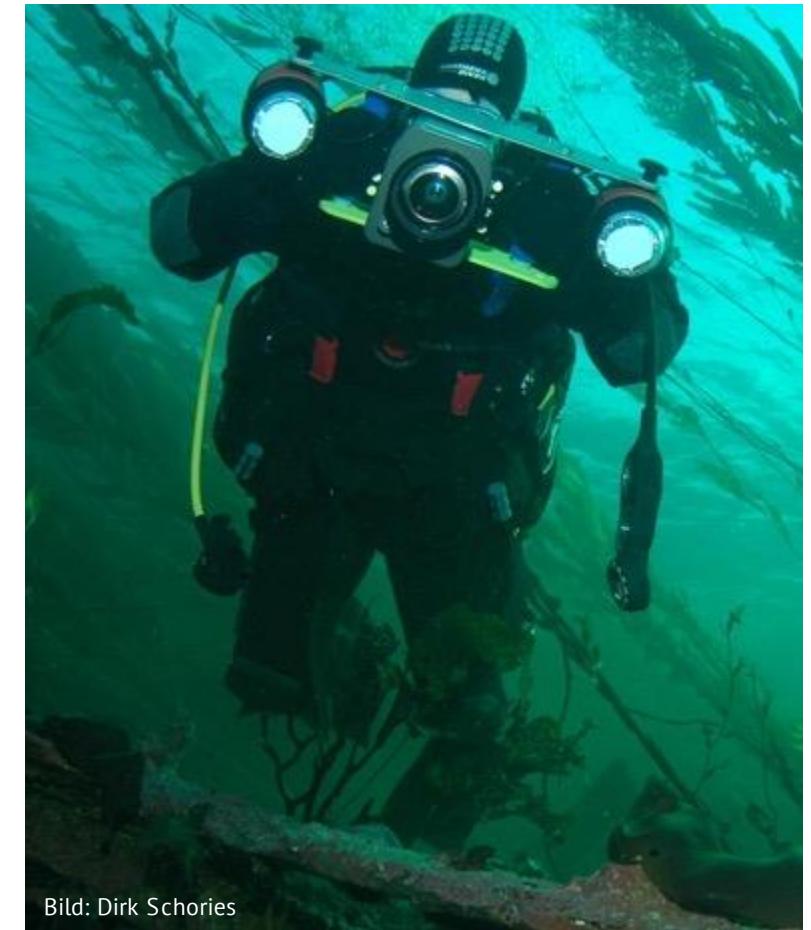
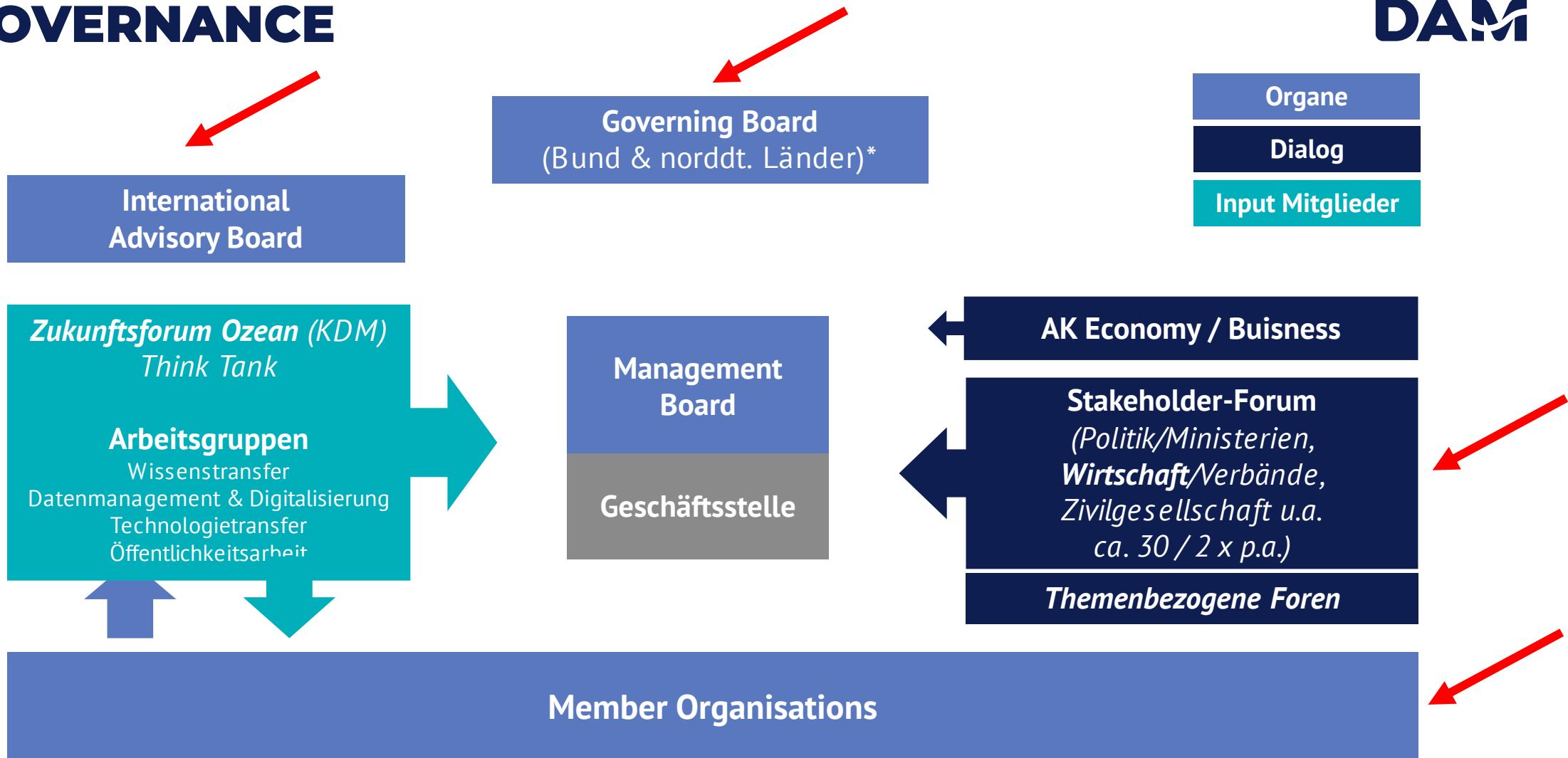


Bild: Dirk Schories

GOVERNANCE

DAM



*im Verwaltungsrat als ständige Gäste/Leitungsebene: DFG, MPG, HGF, FhG, Leibniz, Verbund der norddt. Universitäten

DAM Administrative Agreement:

"The activities of DAM, especially the research missions, are to enable the elaboration of R&D projects in close cooperation with the business community."

Field of action 1: Business cooperation for R & D projects, technology transfer.

Field of action 2: Knowledge exchange with industry

- Industry as an important stakeholder in dialog with science, politics, civil society
- Knowledge exchange oriented to the needs of industry, especially on sustainability issues
- "Transfer over heads": Continuing education, careers, promotion of young talent

→ Productive overlaps between both fields of action

→ Impulses for this from the perspective group Transfer of the DAM members

FIELD OF ACTION 1

DAM

Integrating business into research missions

- How can companies benefit? Ex:
 - R & D, technology transfer
 - Human resources development
 - Sustainability aspects
 - International contacts
 - ...
- Future research missions with business participation (connectivity of FM)Roadmap process / co-design:
 - Phase 1: DAM research mission (BMBF / Länder funding)
 - funding formats for product developments / test operations within research missions
 - DAM as "enabler" between research and industry: ideas, developments, trials.
 - Perspective (phase 2): connectable to BMWi funding (or AIF funding).

Example: Ocean Technology Campus Rostock

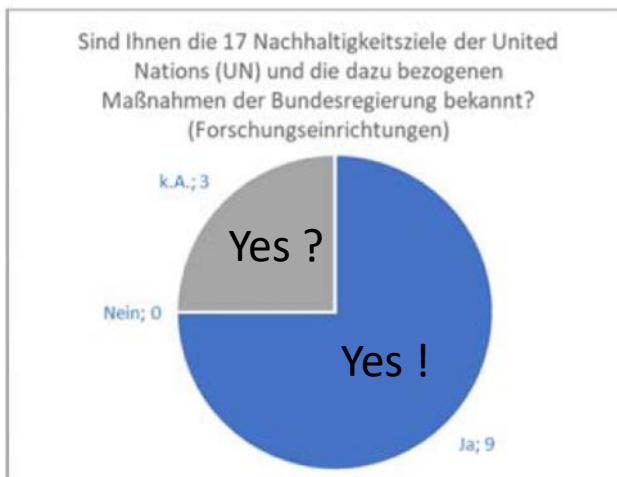
FIELD OF ACTION 2

DAM

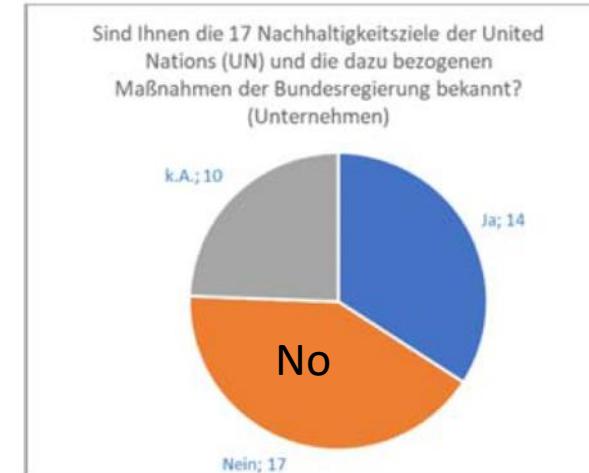
Knowledge exchange on sustainability topics

Result of a survey conducted by the Society for Maritime Technology (GMT) 12/2020:

Academia



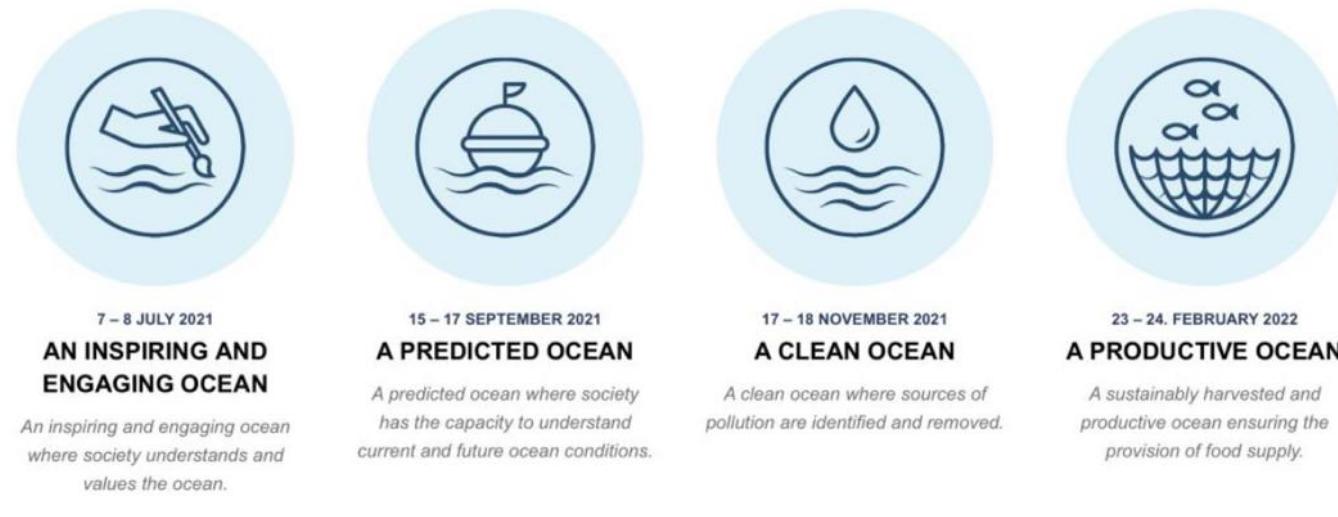
Unternehmen



FIELD OF ACTION 2

DAM

Knowledge exchange on sustainability topics – UN Decade of Marine Science for Sustainable Development



GERMAN NATIONAL OCEAN DECADE COMMITTEE

linked to the German IOC; DAM; KDM

FIELD OF ACTION 2

DAM

Knowledge exchange in sustainable development topics

- As concrete and needs-oriented as possible for companies:
 - Prepared knowledge transfer and initiation of dialogs on sustainability topics from research to industry
→ **GMT survey ...**
- Creating awareness in companies for sustainability as a future topic
 - Services of general interest, sustainable "blue growth"
 - Protecting sustainable value chains (e.g., from piracy, illegal fishing, pollution)
- Corporate social responsibility
 - Participation in stakeholder dialogues on sustainable use of the oceans
- Development potential for sustainable solutions and required framework conditions
 - Supporting the development of knowledge transfer projects (in startups) and mission-oriented innovations
- Benchmarking (e.g. certification / evaluation of products, processes ...)

FIELD OF ACTI 3

DAM

Knowledge transfer via heads

DAM institutions are active in teaching and training (natural sciences and engineering), also across disciplines, e.g. climate and ecosystem knowledge in courses such as Maritime Technologies.

→ many graduates go into industry, through which expertise is transferred to the economy

➤ DAM: Offers for young scientists/technicians and continuing education

Open-Access-Policies

Research organizations bring knowledge and technologies also non-commercially into economic application
e.g. data, OA software as well as technologies

- DAM-core area data management and digitization
- In the context of research missions (see field of action 1)



Virtual Early Career Ocean Professional Day @V_ECOPs - Jun 2
PLEASE ATTACK ME WITH QUESTIONS! 🌐

#ECOPDAY21 #ecops #sciencetoaction



VIELEN DANK

www.allianz-meeresforschung.de

