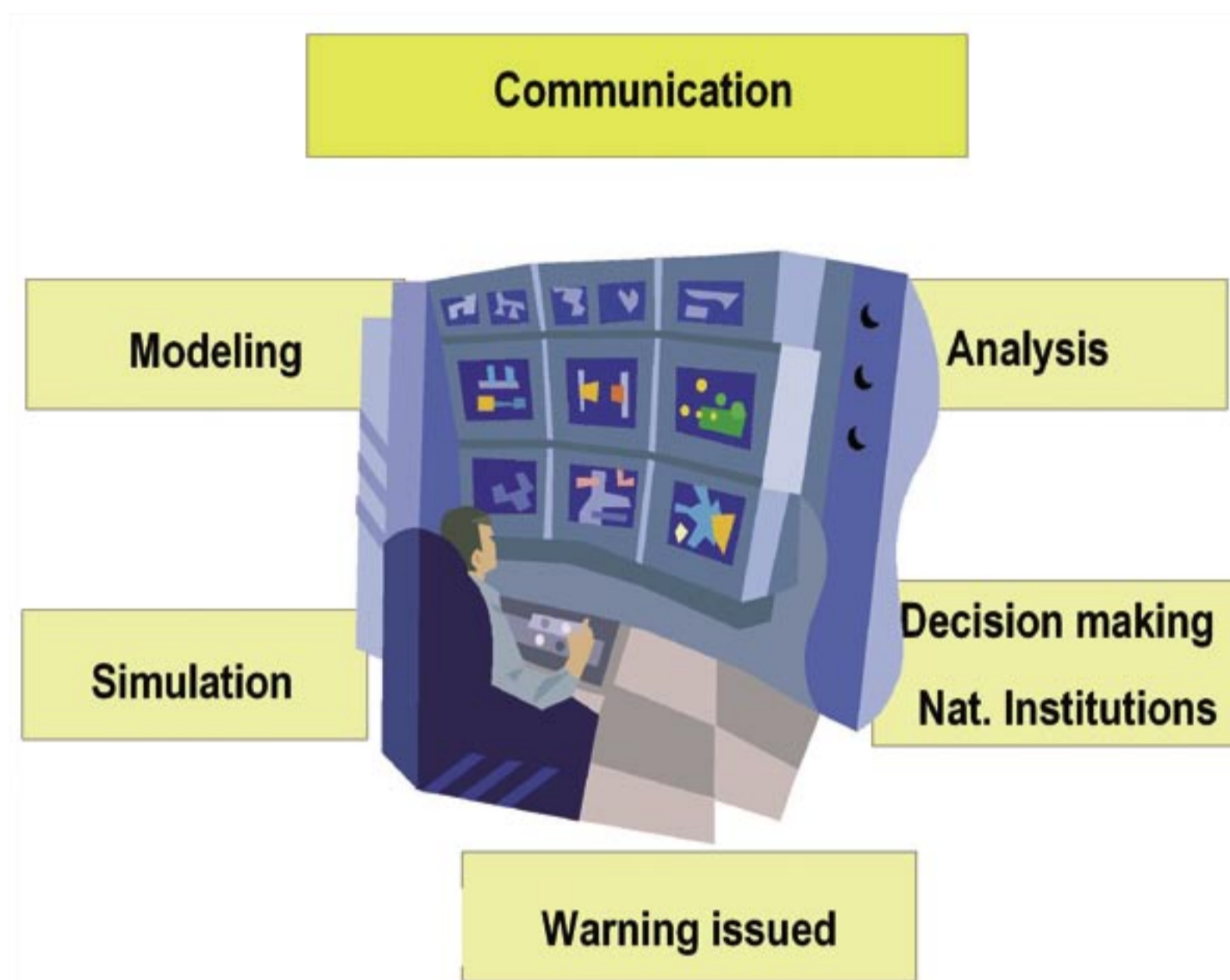


Evaluation, Analysis and Warning

The system provides forecasting, real time data analysis and postprocessing based on:

- A Data reception and evaluation **center** on-shore,
- Detailed regional **bathymetry** and sea floor topography data,
- State-of-the-art **modeling**,
- A fail-safe **Multi-Purpose Public Early Warning** transmission and reception system.

The **Ocean Monitoring Control and Warning Centre (OMCWC)** is designed as a land based station. The complete hardware can be installed in a standard Container. The OMCWC is connected to all the sensors of the system, as well as to all relevant international warning centres and providers of satellite data, via Internet, MF/HF, INMARSAT, IRIDIUM and GSM. In addition, OMCWC is a part of the regional authority and commanding network.



The **Operational Modelling and Forecasting System (OPMOD)** provides real time data analyses, hind casts and forecasts of marine environmental conditions in 2-D or 3-D. OPMOD hydrodynamic simulations enable hazard warnings including dispersion of oil and chemical spills, sediment transport or extreme waves.



The **OMS Data Management System and User Data Base** manages data input from various sources and performs further integration, processing and evaluation.



The **OMS Webserver and WebGIS** serves the user communities with data and information acquired and produced by the OMS system. Data requests and information transfers are tailored according to preferences and needs of individual end-users.

The **Public Early Warning RDS Encoder** distributes warnings and detailed information via normal FM- Radio Broadcast Stations. Non-audible Radio Data System (RDS) signals are already in use throughout the world. RDS- Encoders can be integrated in every FM- Broadcast Transmitter Station. This is the state-of-the-art method to reach the widest possible audience.



Public Early Warning Receivers (PEWR) do receive and decode RDS signals. These specially designed FM receivers enable reception of conventional FM-Radio Broadcast. In addition, the PEWR is triggered by the warning signal - Day and Night - and even during black out (built-in battery pack integrated - min. operation of 48 hours guaranteed). It displays visible and audible Early Warning Information made available by the OMCWC to communicate warning and advice to affected communities.

A customized, multi-user, redundant and therefore potentially fail-safe Ocean Monitoring System.