



## VLVNT Workshop

5-8 October 2003  
NIKHEF, Amsterdam

### Mechanic and Material Session General Programme

A list of arguments that may be addressed in the working group on Mechanic and Material:

#### 1. State of the art:

- Antares Project
- Nemo Project
- Nestor Project

#### 2. Mechanic Structures:

- Junction Box:
  - Design
  - Materials (titanium [Antares] or Steel Made Oil Protect [Nemo], other solution)
  - Dimensions
  - Single or Multiple JB
  - Internal Layout
- Anchor and release system:
  - Design
  - Materials
  - Connection system with Electro Optical Cables and ROV Connectors
  - Deployment system (ROV operated, Self automatic system, ...)
  - Dimensions
- String/tower structure
  - Designs



- Materials
- Dimensions
- Local electronic Housings
- Internal layout
- Deployment procedure and special tools.
- Manufacture and integration
  - Logistic problem
  - Manufacture problem (feasibility, manufacture time, manufacture quality)
  - Internal and external quality
  - Validation Tests
  - FMEA (failure mode and effect analysis) Methodology

### 3. Material

- State of the art about material application in underwater complex structure
- New frontiers and R&D activities
- Supplies and costs analysis