



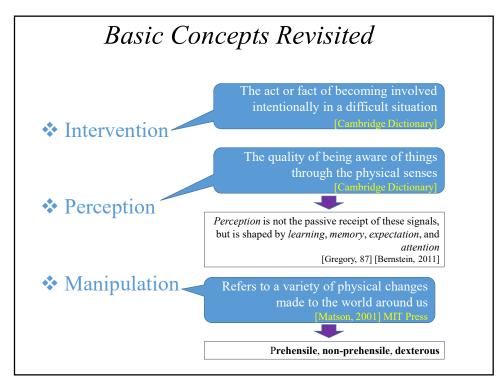




2. UNDERWATER INTERVENTION MISSIONS

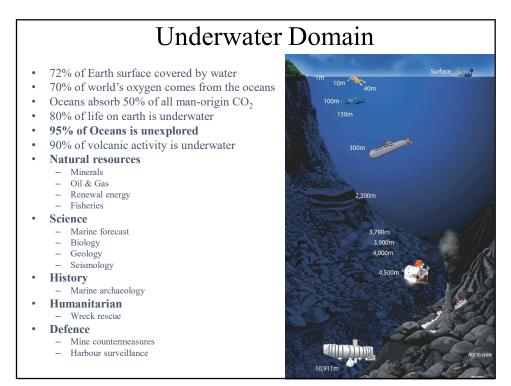
1. Preliminary Concepts

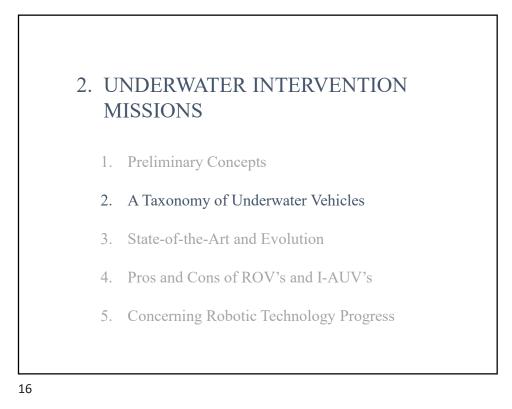
- 2. A Taxonomy of Underwater Vehicles
- 3. State-of-the-Art and Evolution
- 4. Pros and Cons of ROV's and I-AUV's
- 5. Concerning Robotic Technology Progress

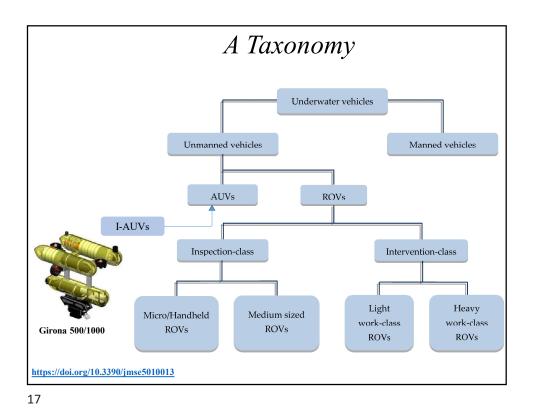


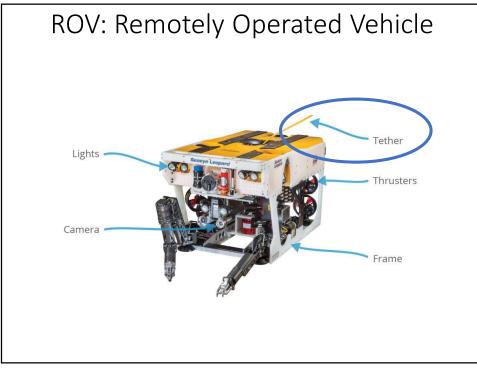


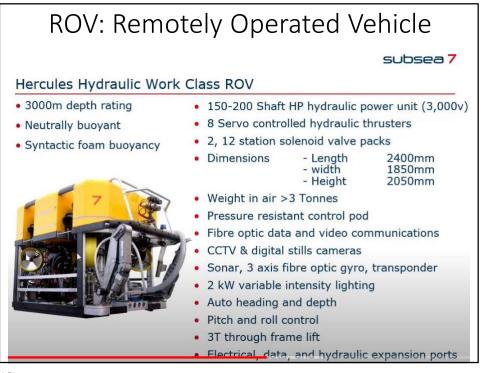






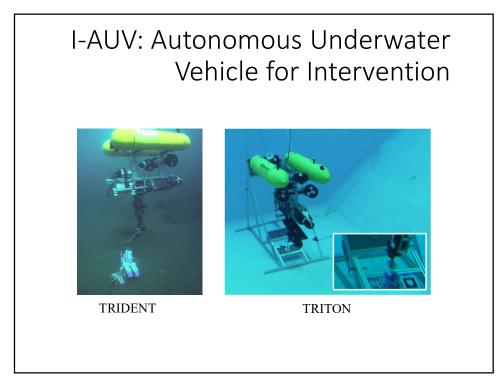


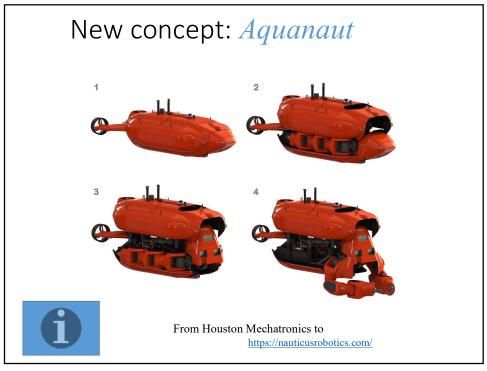










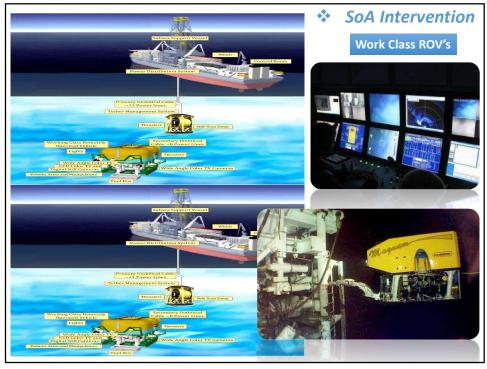




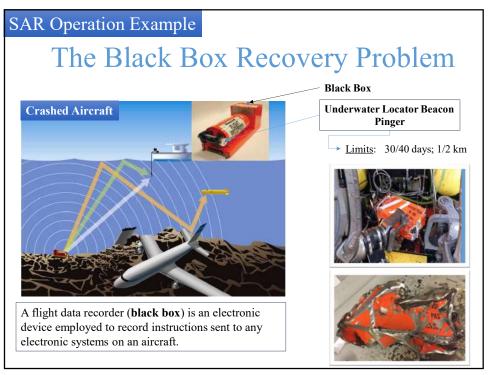
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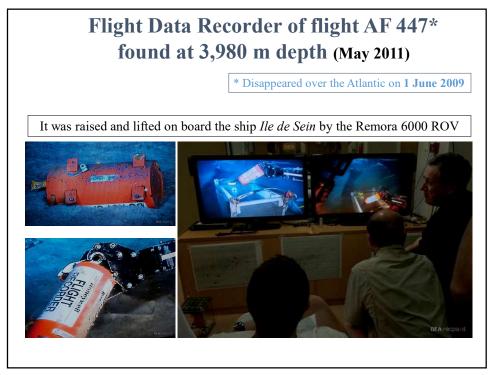
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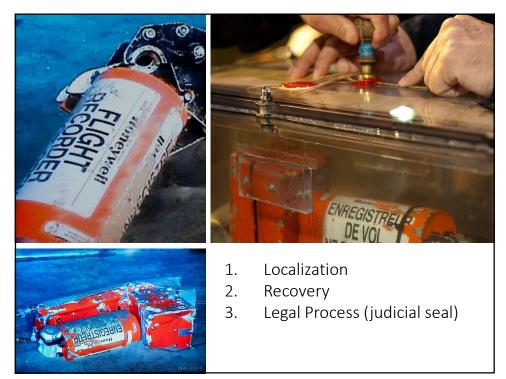






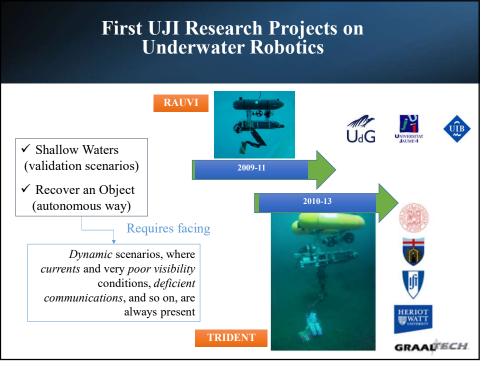


| The search was targeted in an area of about 10.000 square kilometers | SoA Intervention Work Class ROV's |
|---|--|
| Approx. 30 M \$ (three missions) | A team led by the <u>Woods Hole</u> |
| | Oceanographic Institution operating full ocean depth <u>autonomous underwater</u> <u>vehicles</u> (AUVs) discovered, by means of <u>sidescan sonar</u> , a large portion of the debris field from flight AF447 |
| | Phoenix's Remora ROV Specifications |
| | General Weight in Air 900 kgs dry Weight in Water Neutral |
| | Dimensions Length: 1.7 m |
| | Width: 1.0 m |
| | Height: 1.2 m Maximum Operating Depth 6,000 m |
| 1 DEELE RA | Vehicle Description |
| | Propulsion 25 hp electro-hydraulic |
| | Thrusters 4 x Axial / lateral thrusters |
| | 2 x Vertical thrusters |
| | Manipulators 2 x Hydro-Lek six function, rate controlled |

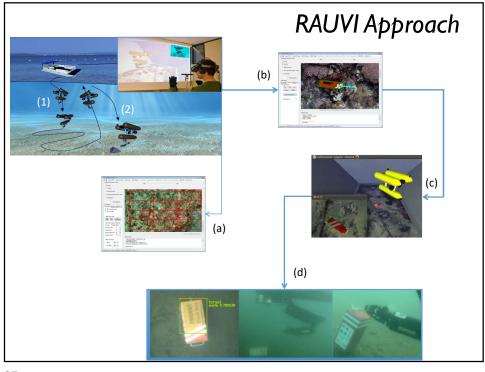


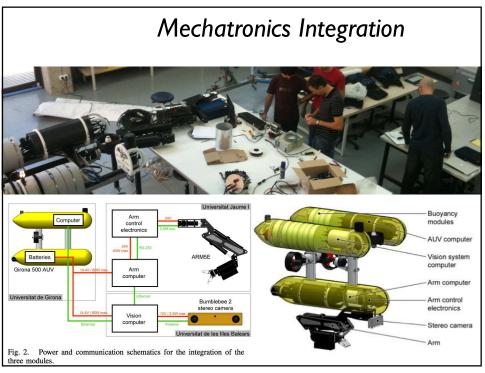


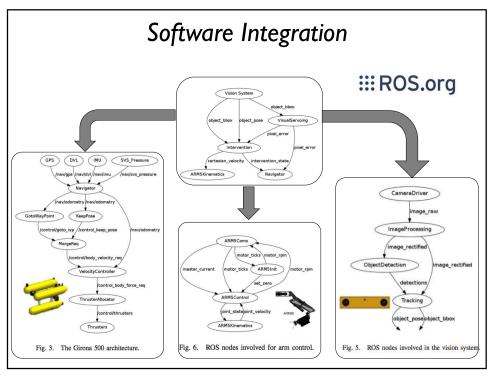


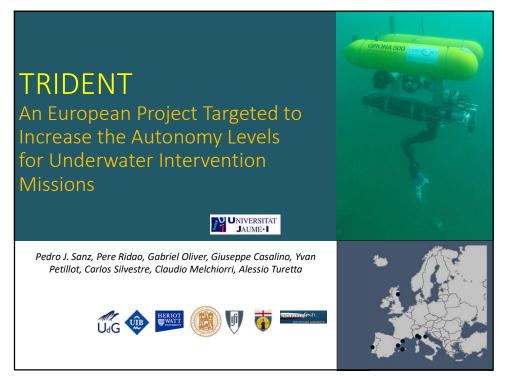


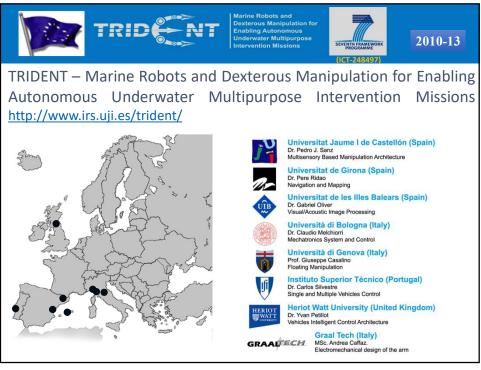


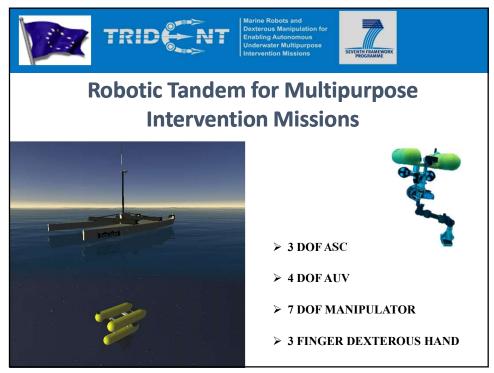


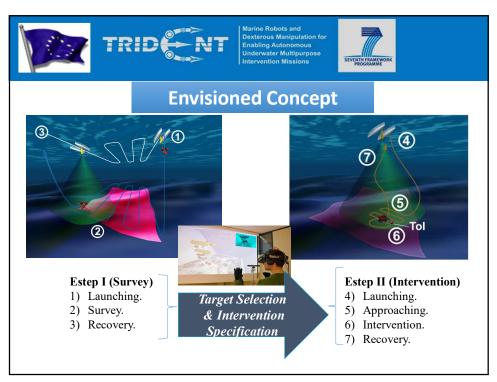








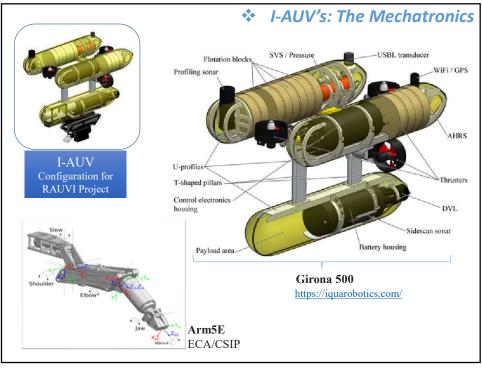


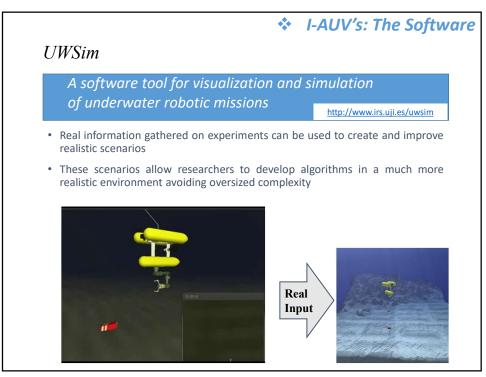


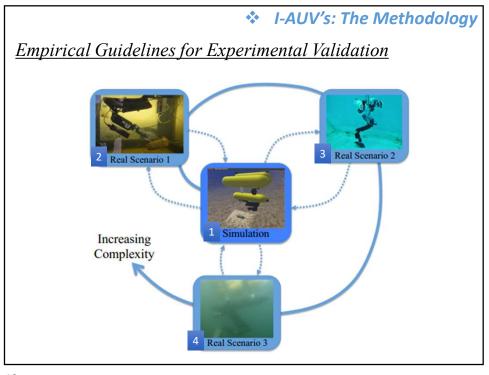






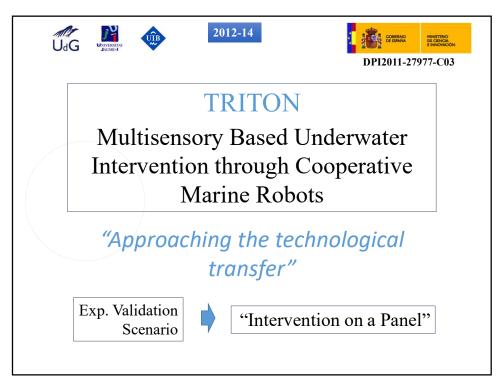


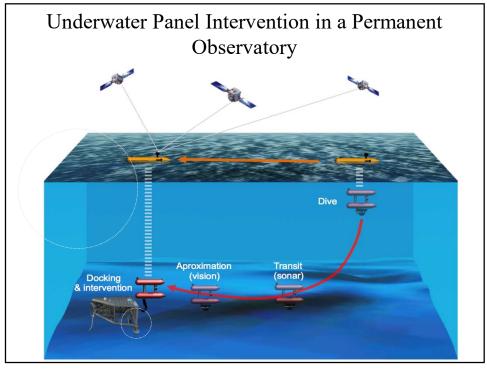


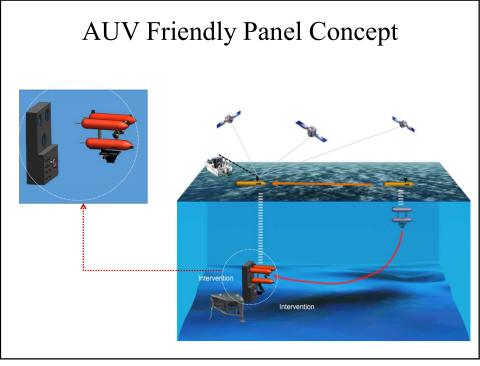


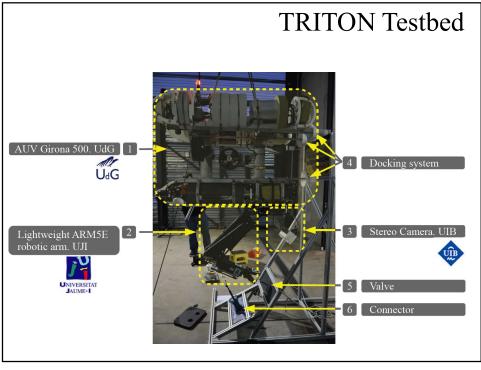


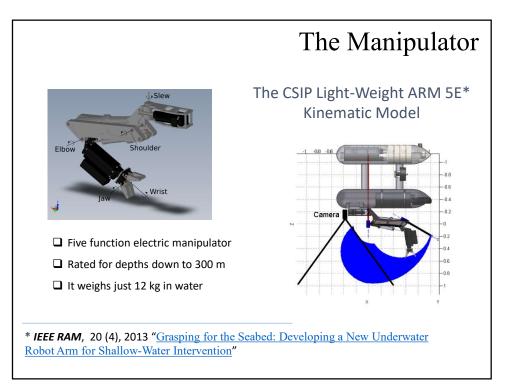


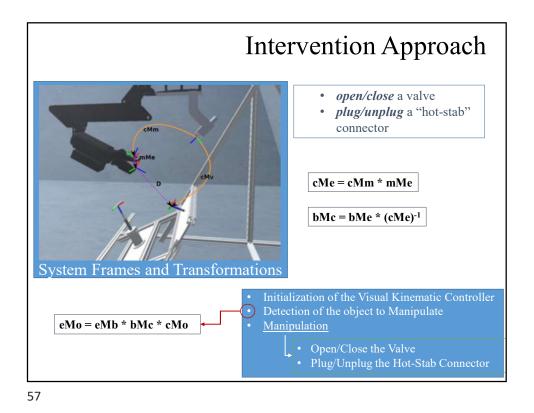


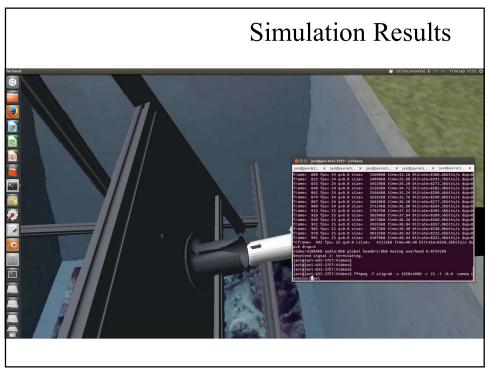


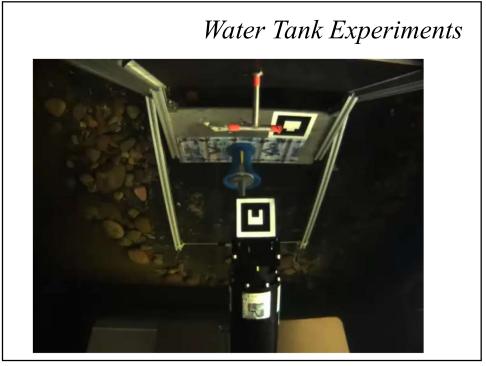










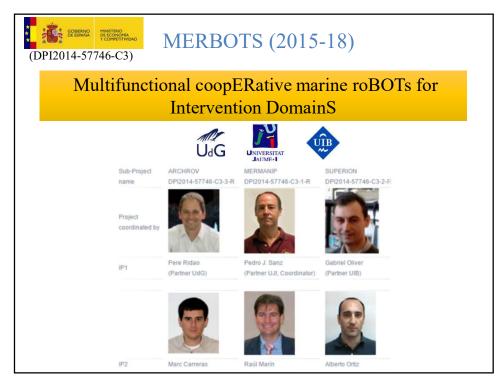


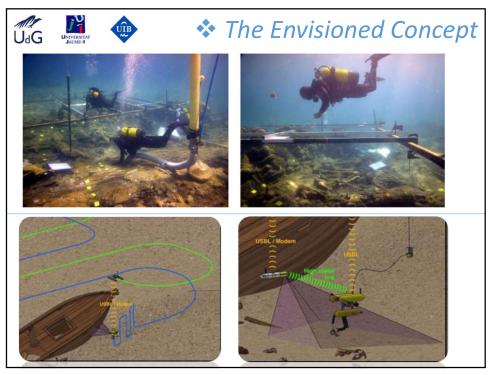




ROBOTIC COOPERATION

Research Projects: MERBOTS, TWINBOT

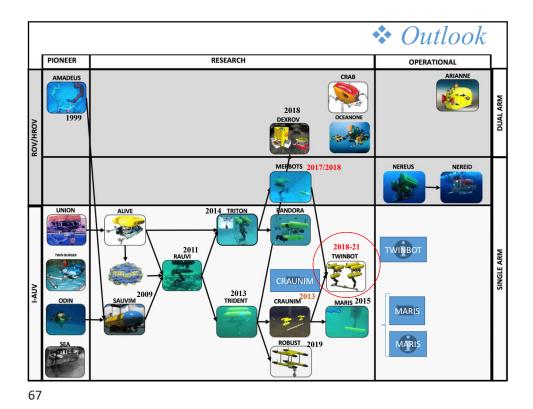


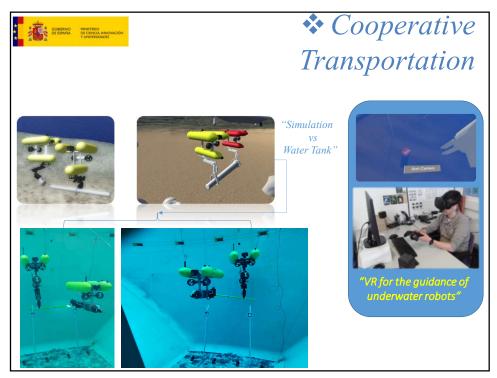


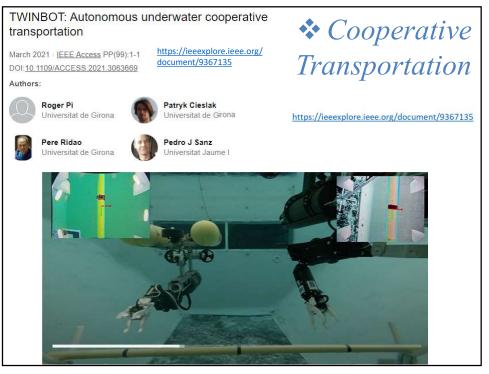


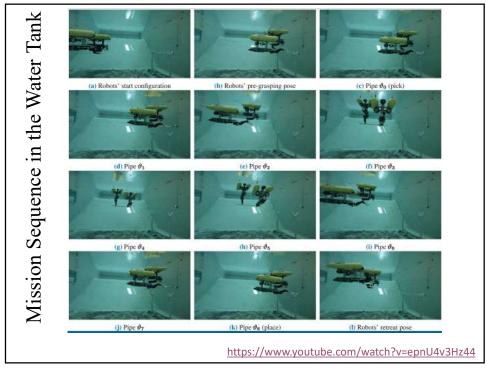
















- 6.1. Ongoing Research Activities (COOPERAMOS, OPTHIROV)
- 6.2 Synergies with other Contexts (Aquaculture, Nuclear Industry

