



Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

Kick-off event

Thursday 21st June 2012

Town hall Municipality of
Woensdrecht



2 Mers Seas Zeeën

INTERREG IV A

FRANCE - ENGLAND - VLAANDEREN - NEDERLAND



“Investing in your future”

Crossborder cooperation programme

2007-2013 Part-financed by the European Union
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Integrated Coastal Zone Management via
Increased Situational Awareness through
Innovations on Unmanned Aircraft Systems

Allyn Thomas

- Chairman of the day.





Program

Time	Subject
10.00 -11.30	3i Guest Speakers, Approval ceremony , Demonstration
11.30-11.45	Coffee Break + 3i poster presentation
11.50-12.45	3i Guest Speakers, Opening ceremony
12.45-13.15	Lunch + 3i poster presentation
13.30-14.45	UAV Guest Speakers
14.45-15.00	Refreshment break & Info market
15.00-16.00	Interactive workshop
16.00-18.00	Info market, drinks and informal meeting
18.00	End of Kick-off Event
15.15-20.00	Site Visit D&MS & Boat Tour Port of Rotterdam



Speakers Morning Program

Subject	Person
Welcome at Woensdrecht and Aviolanda	Major of Woensdrecht- Marcel Fränzel
Interreg 2 Seas Cross Border Cooperation Program & Review by the 2Seas Steering committee	2Seas Joint Technical Secretariat- Gianluca Ferreri & Ministry of EL&I - Jan Willem van Wijngaarden
Introduction 3i project	REWIn -Stefan van Seters
Security issues in World Port of Rotterdam and approach area of Channel & North Sea	Port Of Rotterdam-Jan Gardeitchik
Research & Development at the TU Delft and Overview of Dutch participation in 3i	TU Delft-Prof. Max Mulder
Information demonstration of Unmanned Aircraft System	TU Delft-Bart Remes
Overview of French participation in 3i;	Telecom Bretagne - Gilles Coppin
Overview of UK participation in 3i;	University of Southampton - Jim Scanlan



Speakers Afternoon Program

Subject	Person
Wrap-up morning, Start afternoon program	Stefan van Seters-REWIN
Aviation & maintenance park Aviolanda Woensdrecht & Video	Business Park Aviolanda -Rob Sturm
Launch of Dutch UAV project “Unmanned Aircraft Systems Maintenance Valley”	Fokker Services – Marc Huyzer
Example of UAV applications in The Netherlands	KLPD - Gerard ter Buuren
Interactive workshop: Initiate new projects on UAV applications and UAV technology-innovations	In2Nova - Rob van Nieuwland & Innovatie fabriek – Henk van Dijk

Extra

Site visit 3i-partner Digital & Media Solutions BV

Boat trip on the ‘Nieuwe Maze’ in Rotterdam harbor +
diner





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Innovations on Unmanned Aircraft Systems

Gemeente **Woensdrecht**

Marcel Fränzel

- Major of Woensdrecht
 - Welcome at Woensdrecht!



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Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

3i project Kick-off 21, June 2012

Marcel Fränzel
Mayor of Woensdrecht



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Gemeente **Woensdrecht**

Welcome to the municipality of Woensdrecht



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Gemeente **Woensdrecht**

75 years runway and air base





Military and civil aviation activities in the Woensdrecht region

- Royal Dutch Airforce (Pilot school)
- Logistic Center Woensdrecht (Maintenance)
- Fokker Elmo (Wiring Harness)
- Fokker Services (Maintenance)
- The National Aerospace Laboratory (Research)
- Dutch Aero Services (Engine Maintenance)
- Terma (Electronic Warfare)
- BOEING (Rotary Wing)
- Elbit Systems of America (Avionics)
- Aircraft End of Life Solutions



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Business Park Aviоланда

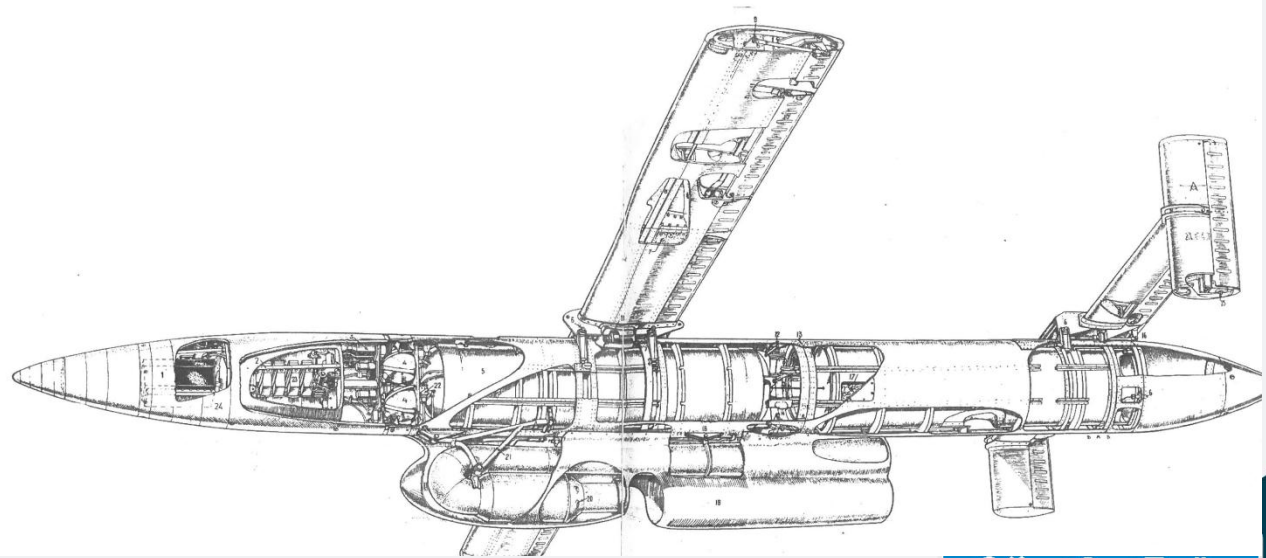
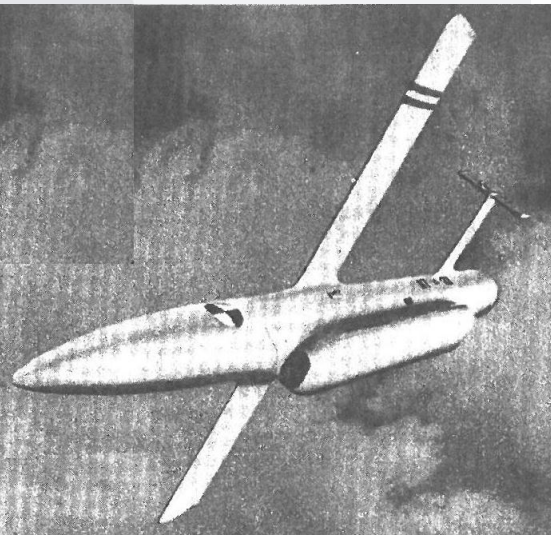




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Unmanned aircraft 1956

'Aviolanda AT-21'



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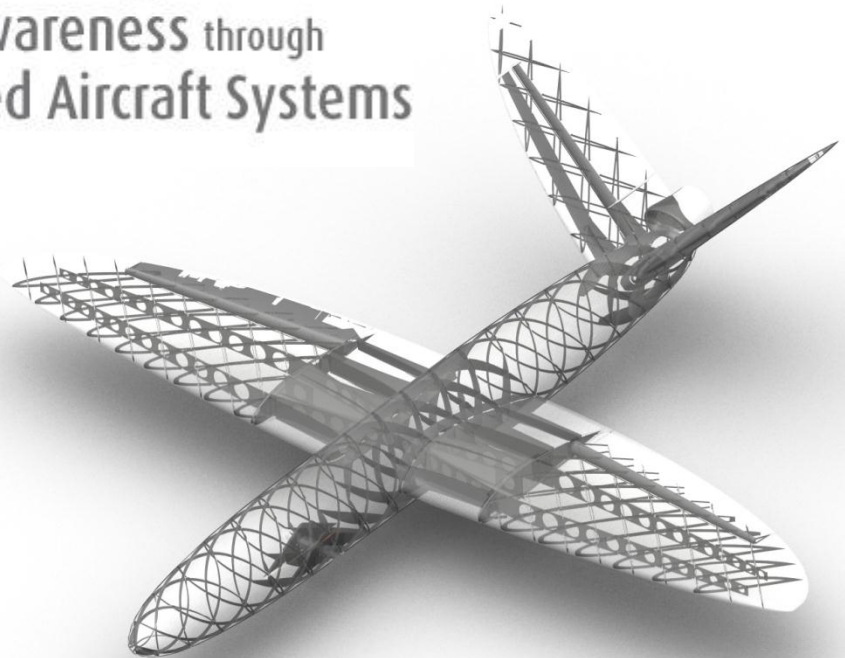


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Innovations on Unmanned Aircraft Systems

Unmanned aircraft 2012



Integrated Coastal Zone Management via
Increased Situational Awareness through
Innovations on Unmanned Aircraft Systems





Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

Thank you all for your attention!

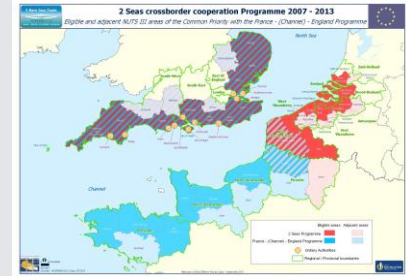


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Gianluca Ferreri

- 2Seas Joint Technical Secretariat
 - INTERREG IV A 2 Seas Programme
 - An introduction and a bridge to the future





Integrated Coastal Zone Management via
Increased Situational Awareness through
Innovations on Unmanned Aircraft Systems

Gianluca Ferreri

- Local ppt

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Woensdrecht, The Netherlands 21st June 2012



**NOTIFICATION OF THE INTERREG IVA 2SEAS PROGRAMME
STEERING COMMITTEE – 9TH CALL FOR PROPOSAL –
PROJECT 09-004-3I**

Evaluation of the Interreg IVA 2 Seas Programme Steering Committee on the 17th of April 2012, by Jan Willem van Wijngaarden, Ministry of Economic Affairs, Agriculture & Innovation



Ministerie van Economische Zaken,
Landbouw en Innovatie



Woensdrecht, The Netherlands 21st June 2012



NOTIFICATION OF THE INTERREG IV A 2SEAS PROGRAMME STEERING COMMITTEE – 9TH CALL FOR PROPOSAL – PROJECT 09-004-3I



The project 3i – Integrated Coastal Zone Management via Increased situational awareness through Innovations on Unmanned Aircraft Systems - is approved by the steering committee on 17th April 2012.

The eligible costs incurred during the implementation of the 3i project will be reimbursed by the Interreg IVA 2 Seas Programme up to a maximum:

€ 1.854.571,=

from the European Regional Development Fund (ERDF)





Stefan van Seters

- REWIN
 - Introduction 3i project: Origin, goals, partners, activities, planning





Origin of 3i project

- Roadmap Aviolanda-Woensdrecht (2009)
- Workshops REWIN & WCM (2010)
- Set up of Joint Industry Project funded by Ministry of Economic Affairs & Provinces Brabant and Zeeland ('UAS Maintenance Valley') (2011)
- Contacts of REWIN with Dutch national UAV user groups: (2011)
- >> Need for European cooperation
- >> Start of 2Seas project development (2011)



Important goals development 3i project

- Accelerate the European UAV knowlegde
- Gain practical knowlegde on UAV operations for end-users
- Develop the UAV business opportunities for European SME
- Create open platform for research and for open communication/publicity



Joint project development & Partner search

- With common interest and right knowlegde:
 1. Rewin > Police Rotterdam
 2. Police Rotterdam > Police Kent
 3. Police Kent > Rewin
 4. Rewin > TU Delft
 5. Rewin > Port of Rotterdam
 6. Police Kent > University of Southampton
 7. TU Delft > Telecom Bretagne
 8. Telecom Bretagne > TBI & ENSTA & Deev
 9. Rewin > AM&TS
 10. AM&TS > D&MS



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Innovations on Unmanned Aircraft Systems



Final: Project partners & supporting partners



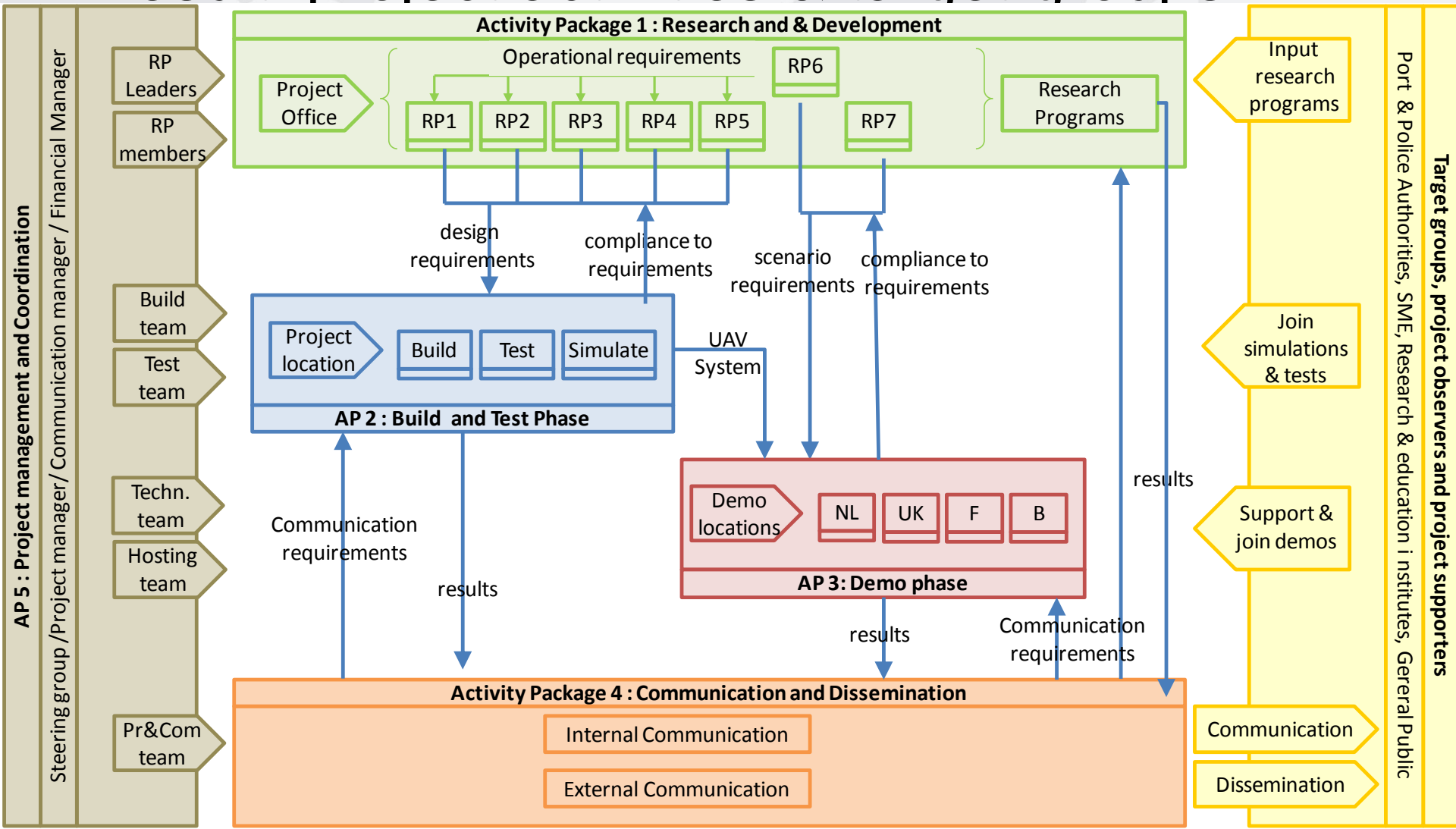
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Result: project activities & target groups





Project Planning

Activity	2012-1	2012-2	2013-1	2013-2	2014-1	2014-2
<u>Activity 1:</u> Research & development						
<u>Activity 2:</u> Build and test						
<u>Activity 3:</u> Demonstrations						
Project Management & coordination						
Communication & Dissemination						



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Jan Gardeitchik

- Port Of Rotterdam
 - Security issues in World Port of Rotterdam and approach area of Channel & North Sea





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Jan Gardeitchik

- Local ppt

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Max Mulder

- Delft University of Technology
 - Research & Development at the TU Delft and
Overview of Dutch participation in 3i





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Max Mulder

- Local ppt

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Bart Remes

- Delft University of Technology
 - Demonstration of Unmanned Aircraft System





Bart Remes – TU Delft

- http://prezi.com/oj9puwlqp7cx/mavlab/?auth_key=2cc853f659bae24208f20f559c80b7fd976e4021



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Thank you all for your attention and
you are invited for coffee/thee and
the 3i info market!



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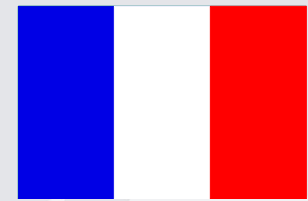
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Gilles Coppin

- Telecom Bretagne
 - Overview of French participation in 3i






Overview of French participation in 3i



**TECHNOPÔLE
BREST-IROISE**

Main contributions:

- Coordination of local partners
- Input scenario research
- Hosting demos



WWW.TECH-BREST-IROISE.FR



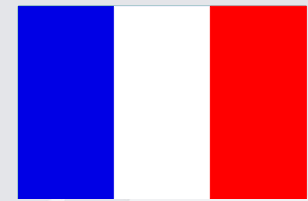
**TELECOM
Bretagne**

Main contributions:

- Design man-machine interfaces
- Data communication systems



WWW.TELECOM-BRETAGNE.EU



Overview of French participation in 3i



Main contributions:

- Man-Machine Interaction
- Multi touch Interface Design



WWW.DEEV-INTERACTION.COM



Main contributions:

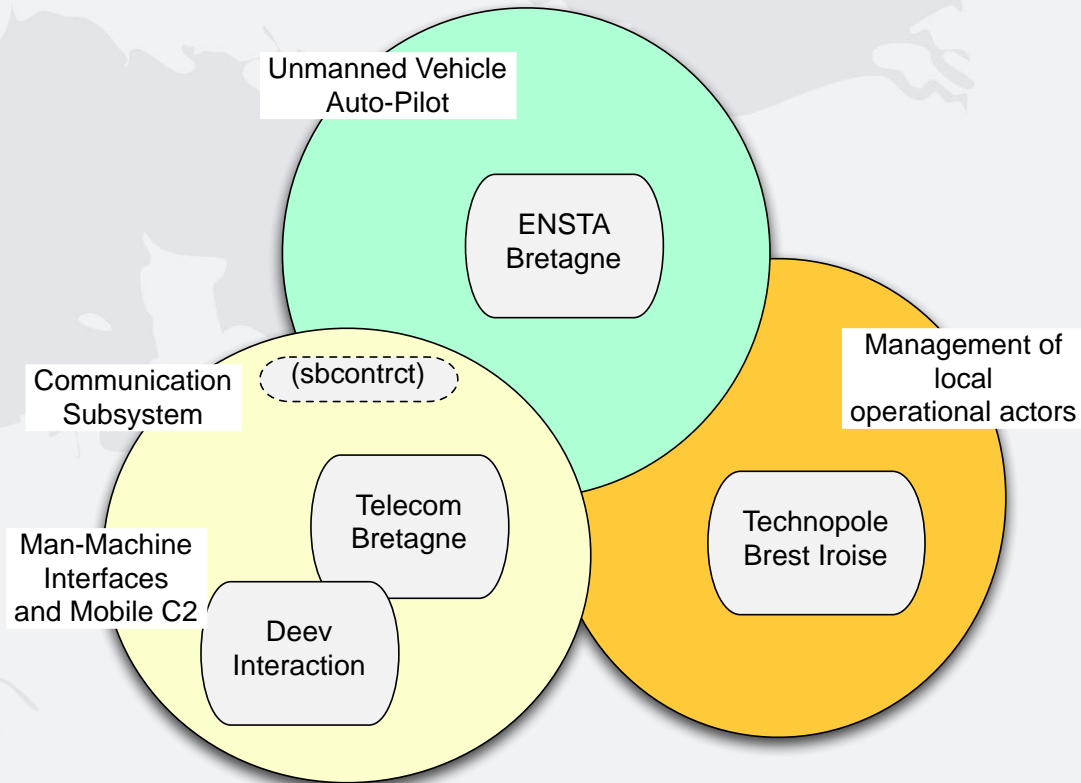
- Research on Autopilot algorithms
- HWIL (Hardware in the Loop) simulations



WWW.ENSTA-BRETAGNE.FR



French Partners positioning





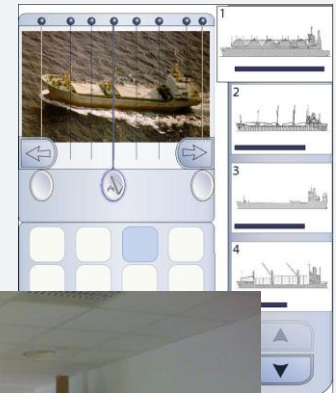
Telecom Bretagne

- French « Grande Ecole » specialized in IT
 - Digital communications
 - Mission systems
 - Advanced man-machine interaction
- Expertise in Maritime Surveillance
 - ATOL – joint lab with Thales on Maritime Surveillance



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Telecom Bretagne





Deev Interaction

- Spin-off of Telecom Bretagne
- Design and Evaluation of innovative interaction systems
- Specialized in multitouch digital tabletop interaction
- Expertise in Command & Control



Deev Interaction





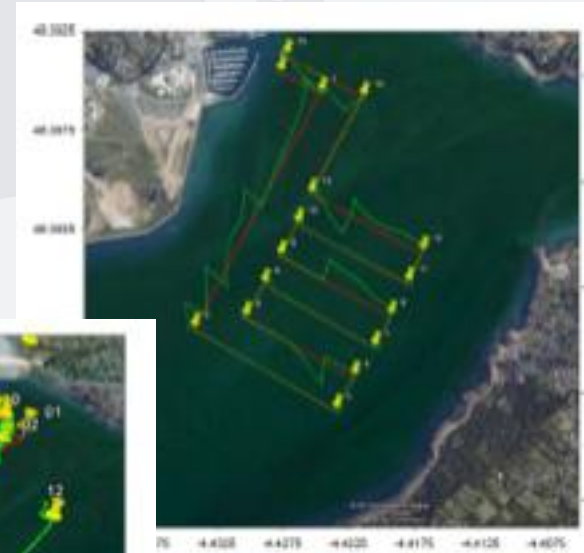
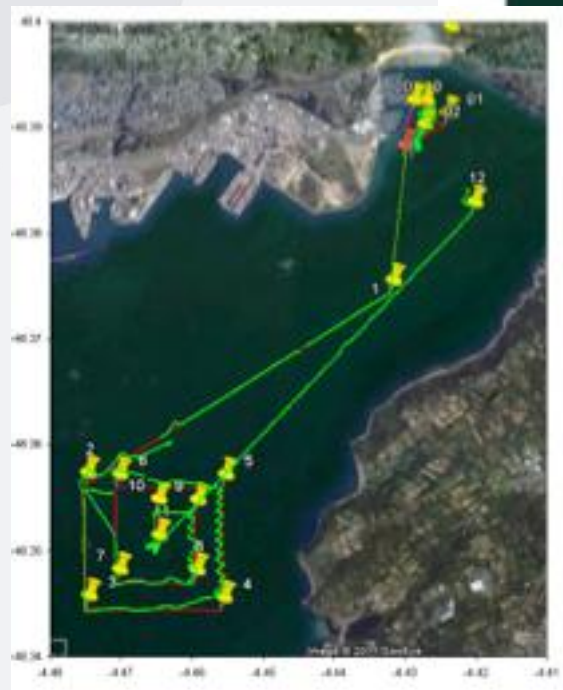
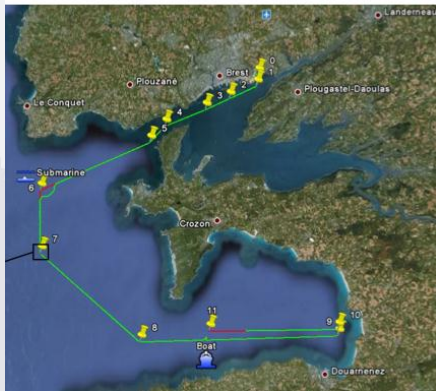
ENSTA Bretagne

- French « Grande Ecole » specialized in military systems and robotics
- Expert in control theory and robust guidance algorithms and embedded systems
- French main contributor to autopilot techniques



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ENSTA Bretagne





Technopôle Brest Iroise

- Industrial, technical and scientific facilitator in Brest and West Brittany area
- ICT and bio-marine activities
- Unmanned robotics and UV



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Technopôle Brest Iroise





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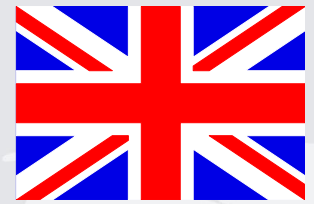
(European Regional Development Fund)



James Scanlan

- University of Southampton
 - Overview of UK participation in 3i





Overview of UK participation in 3i:

UNIVERSITY OF
Southampton

Main contributions:

- Scenario selection
- Design & build airframe
- Power plant selection



WWW.SOUTHAMPTON.AC.UK



**Kent
Police**

Main contributions:

- Maritime Safety scenario research
- Hosting demonstrations
- Communication results



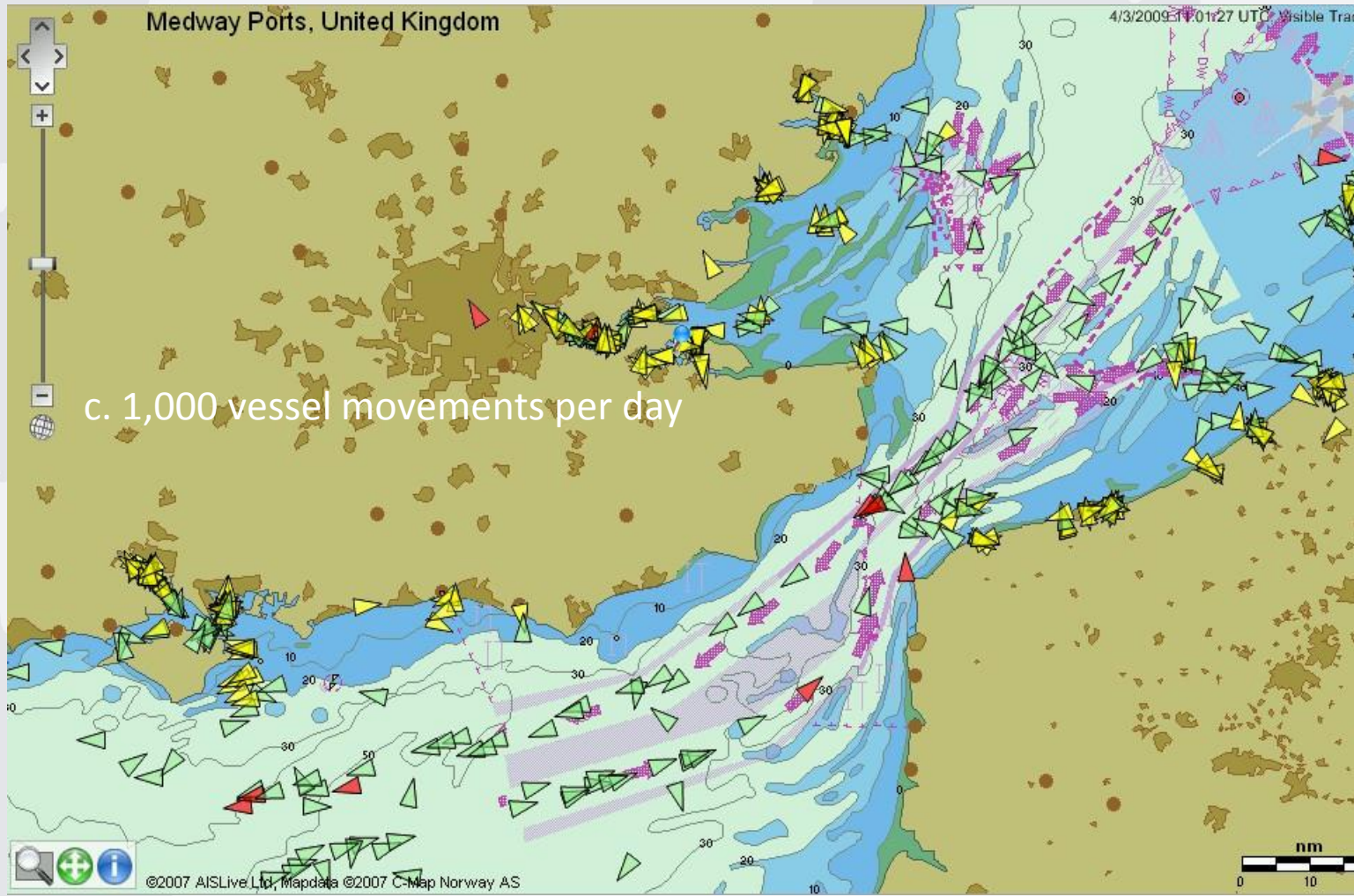
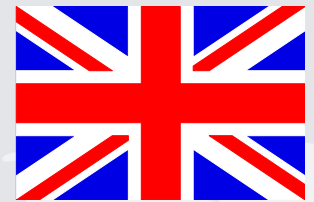
WWW.KENT.POLICE.UK

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Ports Policing - Maritime





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2Seas Project

University of Southampton University

Prof Jim Scanlan, Marc Bolinches, Mario Ferraro



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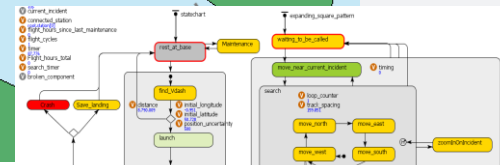
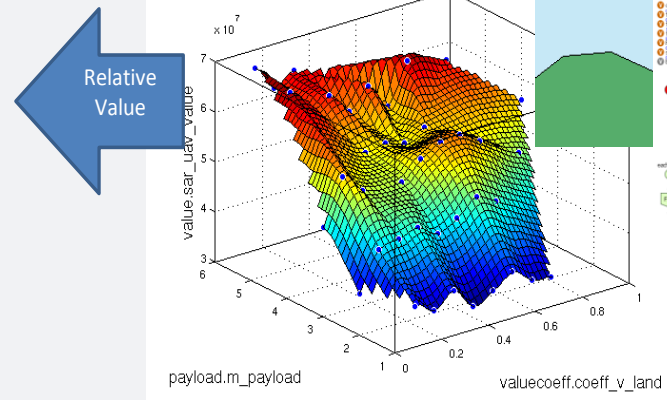
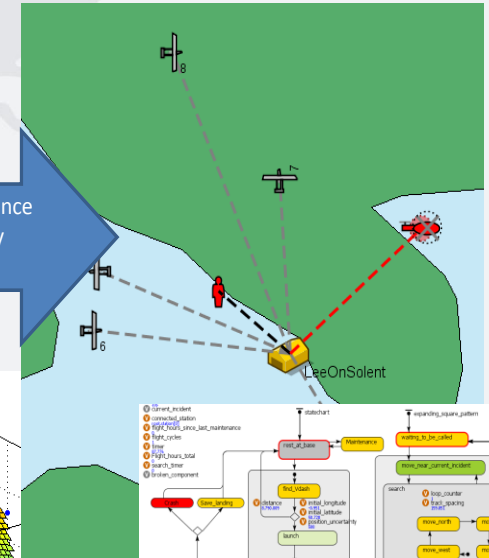
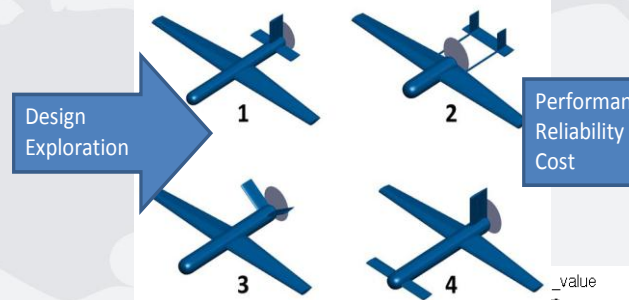
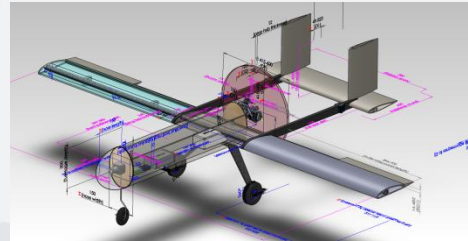
Context

- DECODE (Decision Environment for COMplex DESign)



Maritime Search and Rescue UAV

- “Value” assessment
- Concept through to performance prediction using high and low fidelity analysis (CFD, FE etc)



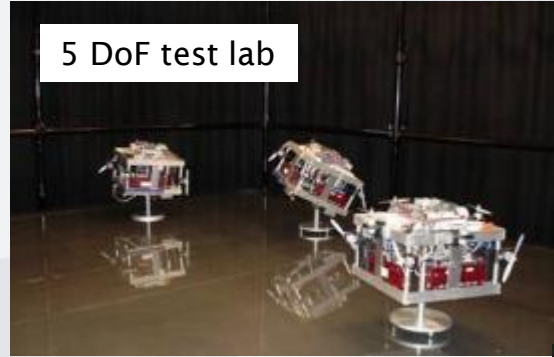
Experience of Rapid Prototyping



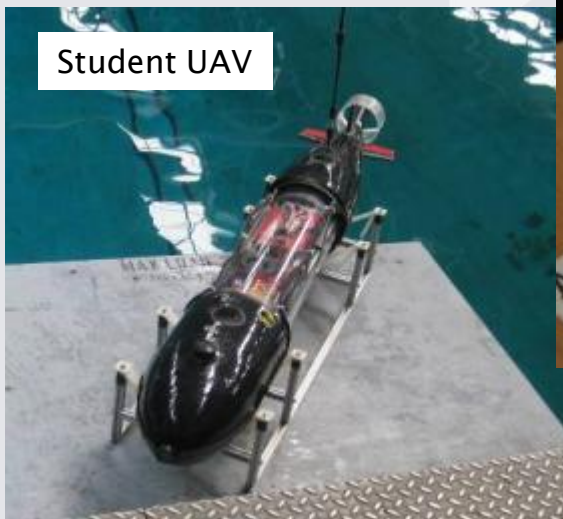
Other University Unmanned Technology



Autosub



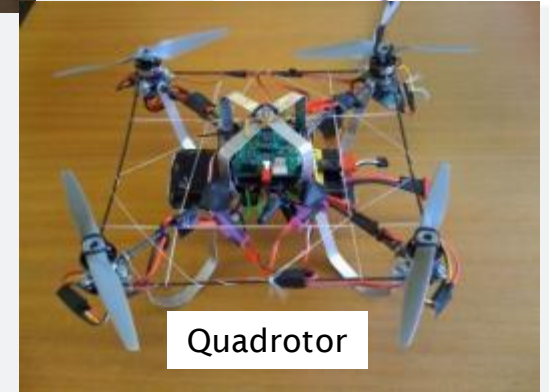
5 DoF test lab



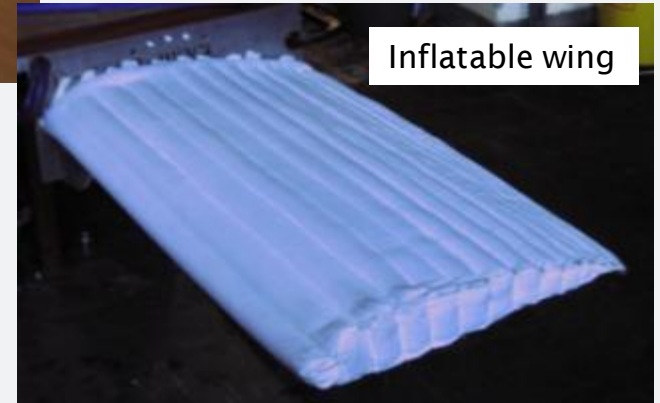
Student UAV



Autopilot

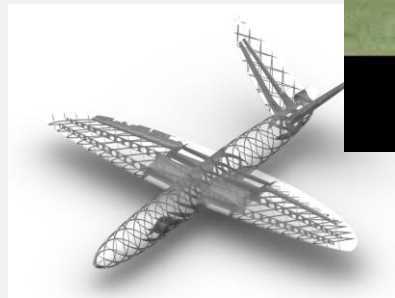


Quadrotor

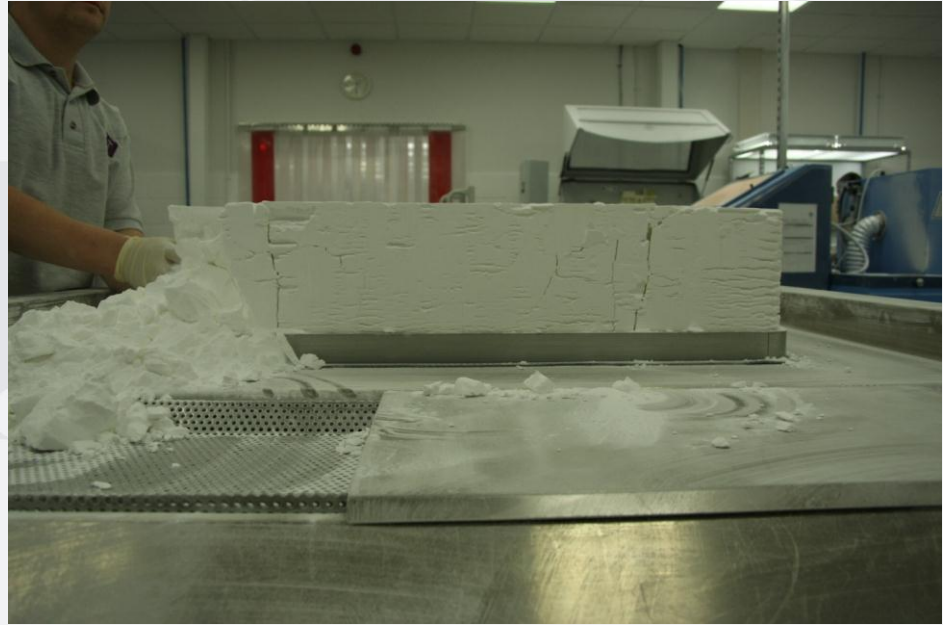
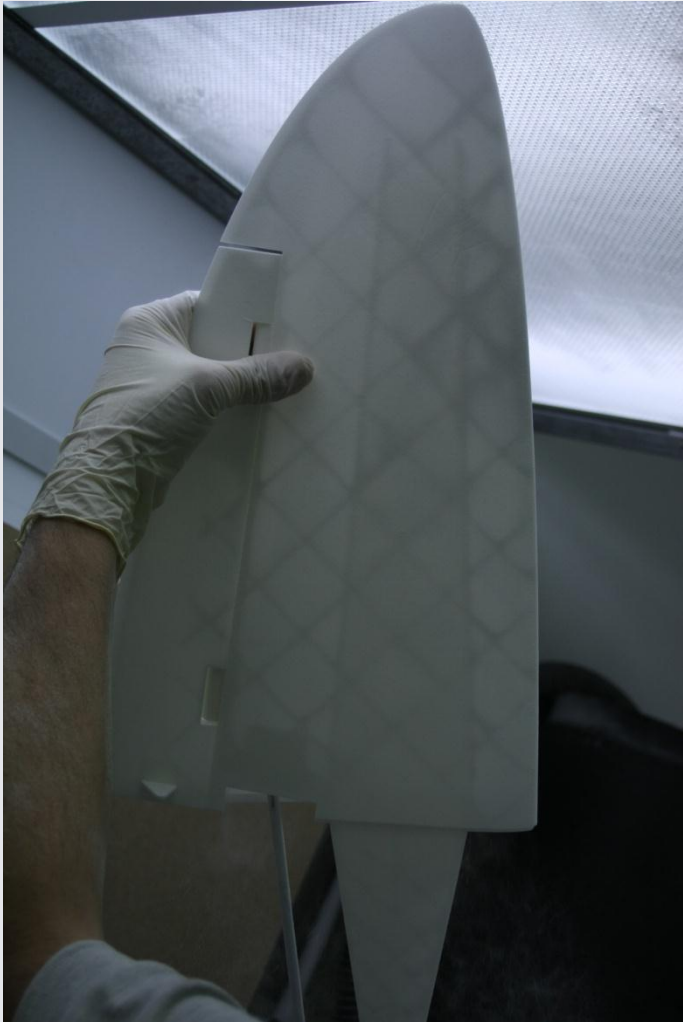


Inflatable wing

Sulsa (Southampton University Laser Sintered Aircraft) Overview



Hinges and moving parts printed in place



Finally; BBC aircraft!





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Opening Project Office



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Why a 3i project office?

- Joint research on maritime unmanned aircraft (UAV) applications and UAV technology
- Joint Building and Testing of the prototype UAV System.





Welcome to the project partners:

Project partner	Persons present today
Technische Universiteit Delft	Erik Jan van Kampen & Bart Remes
ROC West Brabant /AM&TS	Willem Braat
Digital & Media Solutions	Jan Derksen
Ensta Bretagne	Benoit Clement
Kent Police	Andrew Little
Politie Rotterdam Rijnmond	Paul de Kruijf
Technopôle Brest-Iroise	Jeremie Bazin
Havenbedrijf Rotterdam	Reinout Gunst
Rewin	Stefan van Seters
Telecom Bretagne & Deev Interaction SAS	Gilles Coppin
University of Southampton	James Scanlan & Team

Special UAV Mission



GCS

Nav Maps Help Mentor

WGS84 51.441937 4.329319 0.44



Mentor

00:00:00 0.0m/s 0% Holding poin Nav

Bat	Status	AGL	Block
12.5	AUTO2	0	Time 00:47
Link	NONE	+0.0	Stage 00:46
3D	/Target	Alt	ETA N/A
	-34m	16m / 50m	Mark

TE [Icons]

Mentor

Flight Plan GPS PFD Misc Settings

10:27:44 Mentor, Geo init
 10:27:44 Mentor, UNK
 10:27:45 Mentor, mayday, kill mode
 10:27:49 Mentor, AUTO2
 10:27:53 Mentor, Select Touchdown Point
 10:27:54 Mentor, Holding point

Mission: Open Project office

Start



Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

Thank you all for your attention
Please enjoy the lunch and info
market!



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Wrap-up morning, Start afternoon program

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Speakers Afternoon Program

Subject	Person
Aviation & maintenance park Aviolanda Woensdrecht & Video	Business Park Aviolanda -Rob Sturm
Launch of Dutch UAV project “Unmanned Aircraft Systems Maintenance Valley”	Fokker Services – Marc Huyzer
Example of UAV applications in The Netherlands	KLPD - Gerard ter Buuren
Interactive workshop: Initiate new projects on UAV applications and UAV technology-innovations	In2Nova - Rob van Nieuwland & Innovatie fabriek – Henk van Dijk

Subject	Person
Site visit 3i-partner Digital & Media Solutions BV	D&MS- Jan Derksen & International guests
Boat trip on the ‘Nieuwe Maze’ in Rotterdam harbor + diner	Port of Rotterdam & International guests





Rob Sturm

- Business Park Aviolanda BV
 - Business development at Aviation & maintenance park Aviolanda Woensdrecht





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Rob Sturm

- Local ppt

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Marc Huyzer

- Fokker Services BV
 - Launch of Dutch UAV project “Unmanned Aircraft Systems Maintenance Valley”





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UAS Maintenance Valley

“Pieken in de Delta”

Thursday 21 June 2012

Marc Huyzer



Agenda

- Project goals
- Project Structure
- Partners
- Planning

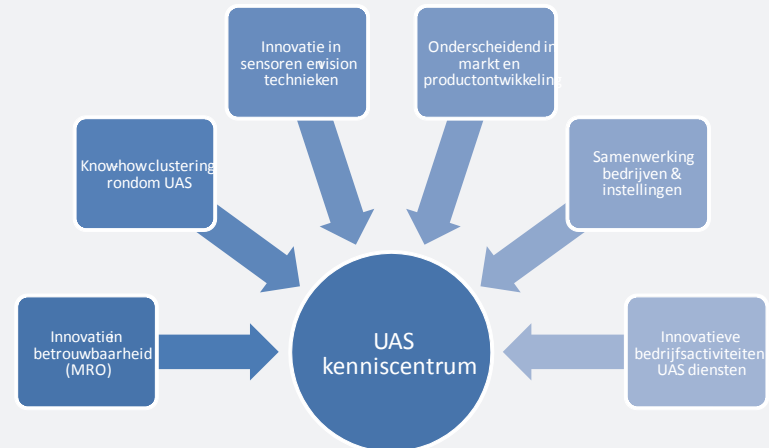


Project Goals

- Acceleration UAS development in the Netherlands
 - UAS Knowledge Centre
 - UAS Innovation
- Yearly UAS Roadmap
- Independent continuation after project

UAS Knowledge Centre Woensdrecht

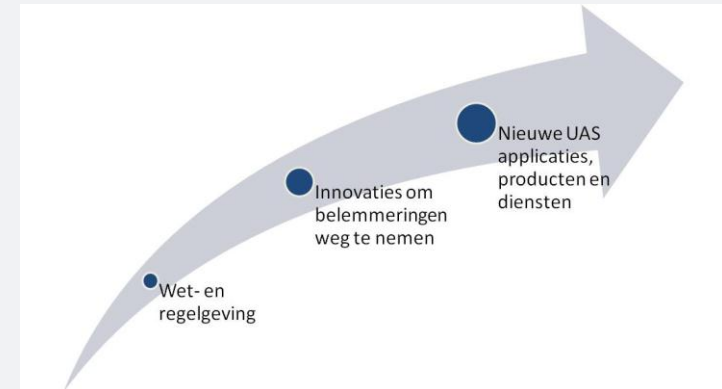
- Channel information to and from UAS community
- Contributions from partners
- Vision development: NL UAS Roadmap
- Projects foreground knowledge sharing
- Creating awareness
- Advise
- Demonstrate
- Initiation of new projects
- Evaluation of innovations



UAS Innovation

Woensdrecht

- Feasibility studies innovative technologies
“which technologies to improve?”
- Research on innovative technologies
- Prototyping/testing/certifying



Target groups

- (High) Tech
- End-users
- Authorities



Partners & Participants

- 50 partners and participants
- Core team
 - DIWCM – Project Coordinator
 - Rewin
 - In2Nova
 - Fokker – Project Management



UAS Maintenance Valley Planning

- Kick-off UAS Event – June 28th 2012
- September 2012
 - Frozen scope of projects
- Duration Project
 - September 2012 – December 2014
- Point of contact
 - DIWCM – Kees van der Hoop
 - Fokker – Marc Huyzer



Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

Thank you all for your attention!



“Investing in your future”

Crossborder cooperation programme

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Integrated Coastal Zone Management via
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Innovations on Unmanned Aircraft Systems



Gerard ter Buuren

- Korps Landelijke Politiediensten
 - Example of UAV applications in The Netherlands





Integrated Coastal Zone Management via
Increased Situational Awareness through
Innovations on Unmanned Aircraft Systems

Gerard ter Buuren

- Local ppt

2 Mers Seas Zeeën

INTERREG IVA

FRANCE - ENGLAND - VLAANDEREN - NEDERLAND



Program

Time	Subject
10.00 -11.30	3i Guest Speakers, Approval ceremony , Demonstration
11.30-11.45	Coffee Break + 3i poster presentation
11.50-12.45	3i Guest Speakers, Opening ceremony
12.45-13.15	Lunch + 3i poster presentation
13.30-14.45	UAV Guest Speakers
14.45-15.00	Refreshment break & Info market
15.00-16.00	Interactive workshop
16.00-18.00	Info market, drinks and informal meeting
18.00	End of Kick-off Event
15.15-20.00	Site Visit D&MS & Boat Tour Port of Rotterdam



I



II

Evening Programs

Subject	Person
Interactive workshop: Initiate new projects on UAV applications and UAV technology-innovations	In2Nova - Rob van Nieuwland & Innovatie fabriek – Henk van Dijk
Info market, drinks and informal meeting	

I

Subject	Person
Trip to Oud-Gastel (0:26 min)	VIP & International guests
Site visit 3i-partner Digital & Media Solutions BV (factory tour 3x15 persons)	D&MS- Jan Derksen, VIP & International guests
Trip to Port of Rotterdam (0:41 min)	International guests
Boat trip on the 'Nieuwe Maze' in Rotterdam harbor + diner (55 persons)	Port of Rotterdam & VIP& International guests
Trip back to Hoogerheide (0:59 min)	International guests

II





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Interactive workshop by:



Henk van Dijk



Rob van Nieuwland





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Henk van Dijk

- Local ppt

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UAS Maintenance Valley (Pieken in de Delta)

Two sub programs:

UAS Centre of Expertise, Woensdrecht

- Channel information to and from UAS community
- Contributions form partners
- Vision development: NL UAS Roadmap
- Projects foreground knowledge sharing
- Creating awareness
- Advise
- Demonstrate
- Initiation of new projects
- Evaluation of innovations

UAS Innovation Projects

- Feasibility studies innovative technologies
“which technologies to improve?”
- Research on innovative technologies
- Prototyping/testing/certifying



Inspiring notes workshop!

- Class 1 use only
- Expansion to Class 2
- Development of Acceptable Means of Compliance
- Development of Safety Management System Light for UAS
- Your contribute to UAS expert centre
- Expansion flight endurance (fuel cells)
- Creation Qualified Entity UAS
- Mission preparation
- Sense, detect and avoid (sensors/transponders)
- New applications/payloads



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de iINNOVATIEFABRIEK

Conclusions and further actions

2 Mers Seas Zeeën

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Gemeente **Woensdrecht**

Anton van der Wijst

Day ending & invitation to reception, on behalf of:

TU Delft Delft University of Technology



D&MS

Deev
Interaction



UNIVERSITY OF
Southampton



POLITIE

REWIN
PROJECTEN BV

Gemeente **Woensdrecht**



TECHNOPÔLE
BREST-IROISE



NV **REWIN**
WEST-BRABANT

POLITIE
vts Politie Nederland



Aviолanda
woensdrecht



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Thank you all for your presence!
Hope to see you back in further
meetings!



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