

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





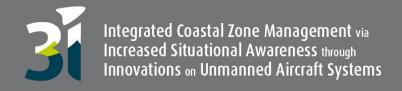


Allyn Thomas

Chairman of the day.





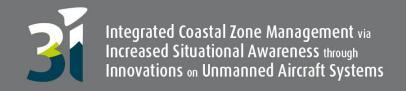




Program

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	0-16.00 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					

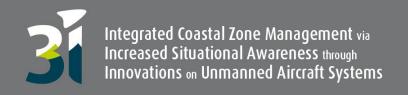






Speakers Morning Program

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





Marcel Fränzel

- Major of Woensdrecht
 - Welcome at Woensdrecht!





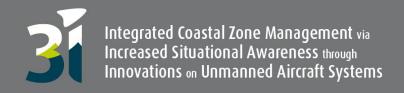


Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

3i project Kick-off 21, June 2012

Marcel Fränzel Mayor of Woensdrecht







Welcome to the municipality of Woensdrecht

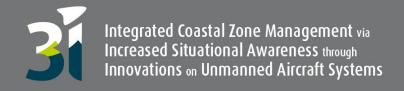














75 years runway and air base







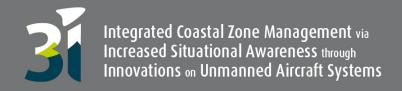




Military and civil aviation activities in the Woensdrecht region

- 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 Warefare)
- BOEING (Rotary Wing)
- Elbit Systems of America (Avionics)
- Aircraft End of Life Solutions







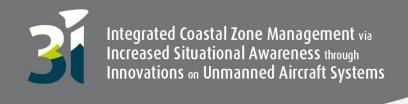
Business Park Aviolanda





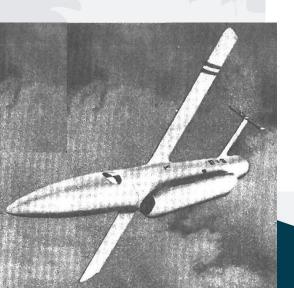


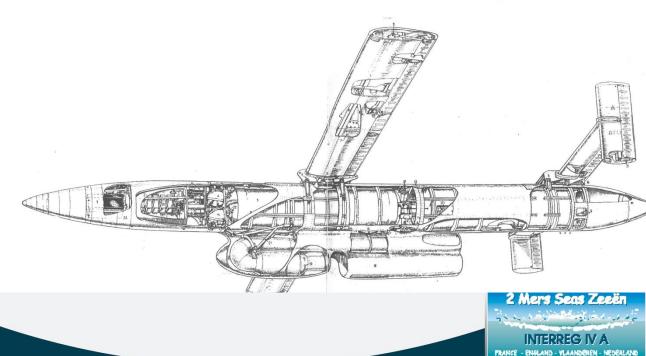


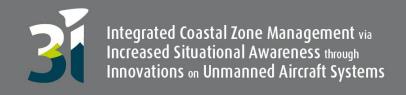


Unmanned aircraft 1956

'Aviolanda AT-21'







Unmanned aircraft 2012





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

Thank you all for your attention!



2 Seas crossborder cooperation Programme 2007 - 2013 Bratie and above find it deep in the Control findle will be finance Journal - Equal Fragment The Control of the Control findle will be finance of the Control of the Control findle will be finance of the Control of the Con

Gianluca Ferreri

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







Gianluca Ferreri

Local ppt





Woensdrecht, The Netherlands 21st June 2012



Notification of the INTERREG IVA 2SEAS PROGRAMME STEERING COMMITEE - 9TH CALL FOR PROPOSAL -PROJECT 09-004-31

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 2 Mers Seas Zeeën

INTERREG IV A

FRANCE - ENGLAND - YLAANDEREN - NEDERLAND

Woensdrecht, The Netherlands 21st June 2012





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



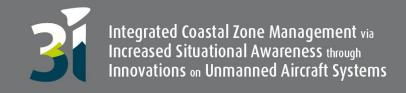




Origin of 3i project

- 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)



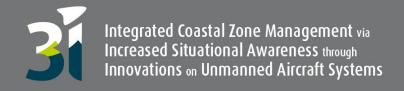




Important goals development 3i project

- 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



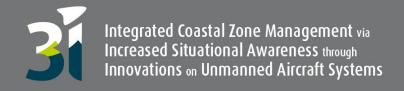




Joint project development & Partner search

- 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







Final: Project partners & supporting partners



































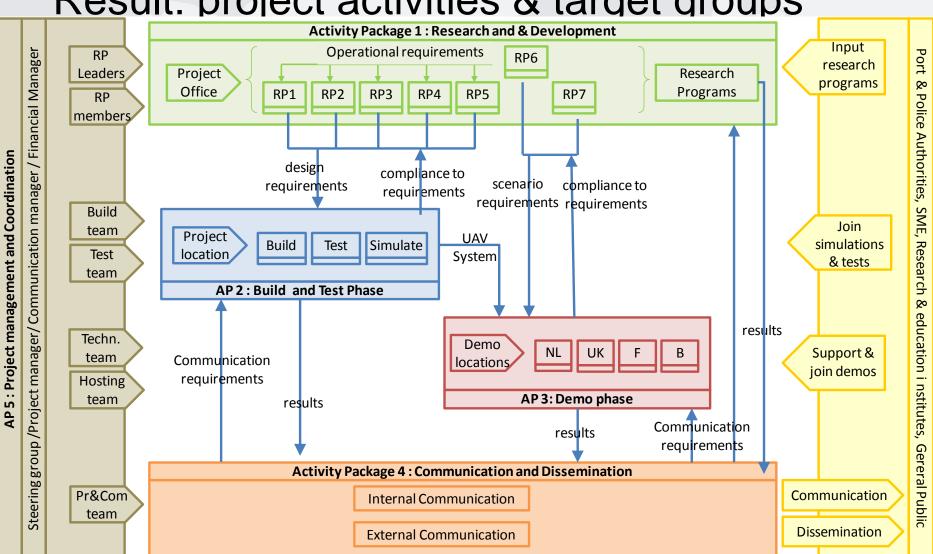






Target groups, project observers and project supporters

Result: project activities & target groups







INTERREG IV A

Project Planning

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



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

Thank you all for your attention!



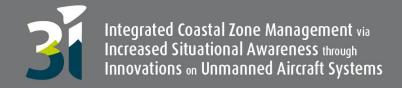


Jan Gardeitchik

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







Jan Gardeitchik

Local ppt





Max Mulder

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







Max Mulder

Local ppt





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

Thank you all for your attention!





Bart Remes

- Delft University of Technology
 - Demonstration of Unmanned Aircraft System







Bart Remes - TU Delft

 http://prezi.com/oj9puwlqp7cx/mavlab/?aut h_key=2cc853f659bae24208f20f559c80b7 fd976e4021





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

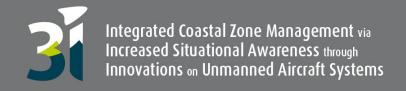
Thank you all for your attention and your are invited for coffee/thee and the 3i info market!





"Investing in your future"

Crossborder cooperation programme 2007-2013 Part-financed by the European Union (European Regional Development Fund)





INTERREG IV A

Program

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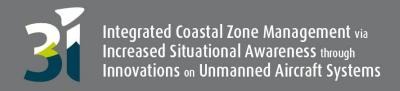


Gilles Coppin

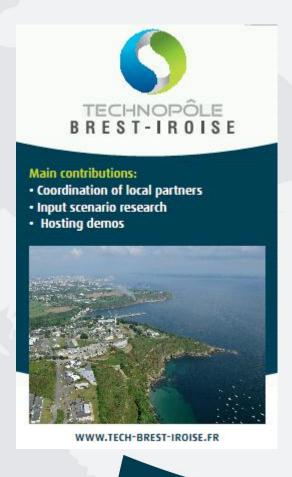
- Telecom Bretagne
 - Overview of French participation in 3i





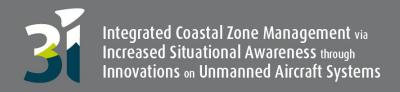


Overview of French participation in 3i









Overview of French participation in 3i



Main contributions:

- Man-Machine Interaction
- Multi touch Interface Design



WWW.DEEV-INTERACTION.COM



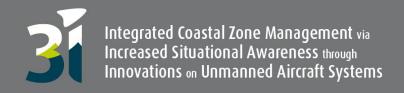
Main contributions:

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

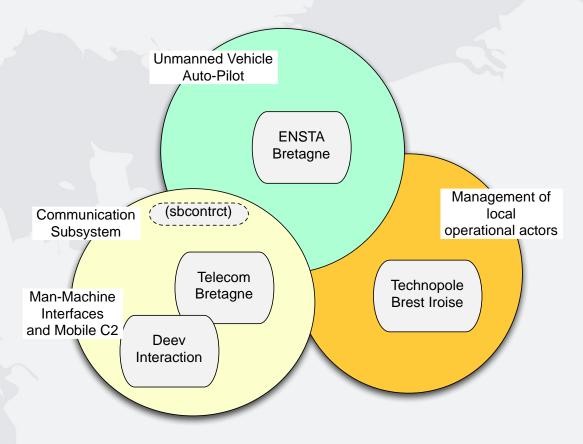


WWW.ENSTA-BRETAGNE.FR





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





Telecom Bretagne



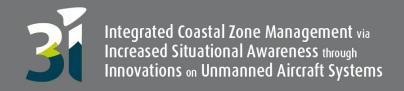




Deev Interaction

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





Deev Interaction

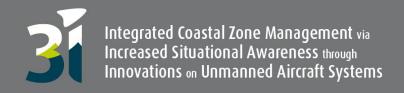




ENSTA Bretagne

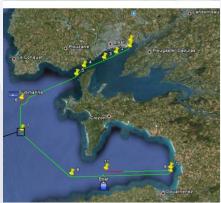
- French « Grande Ecole » specialized in military systems and robotics
- Expert in control theory and robust guidance algorithms and embedded systems
- French main contributor to autopilot techniques

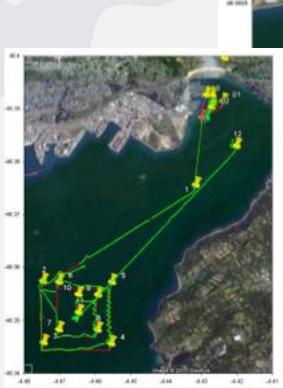




ENSTA Bretagne







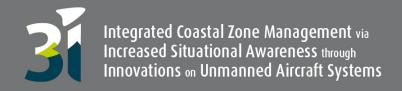


2 Mers Seas Zeeën
INTERREG IV A
FRANCE - ENGLAND - VLANDOREN - NEDERLAND

Technopôle Brest Iroise

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





Technopôle Brest Iroise





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

Thank you all for your attention!



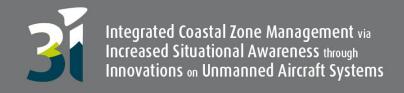


James Scanlan

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





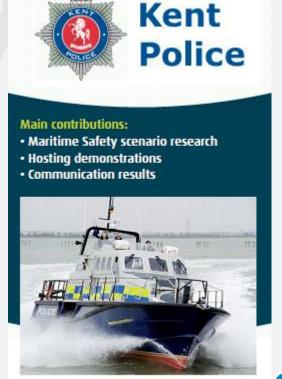




Overview of UK participation in 3i:

Main contributions: Scenario selection Design & build airframe Power plant selection

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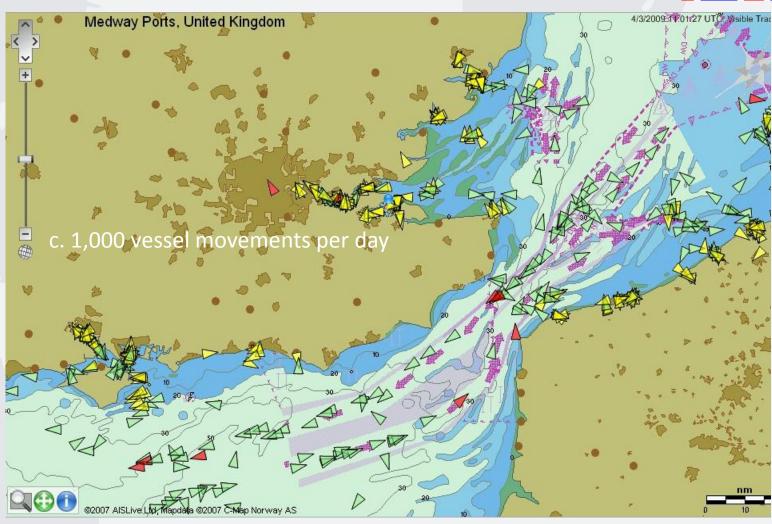


WWW.KENT.POLICE.UK



Ports Policing - Maritime







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

2Seas Project University of Southampton University

Prof Jim Scanlan, Marc Bolinches, Mario Ferraro



"Investing in your future"

Crossborder cooperation programme 2007-2013 Part-financed by the European Union (European Regional Development Fund)



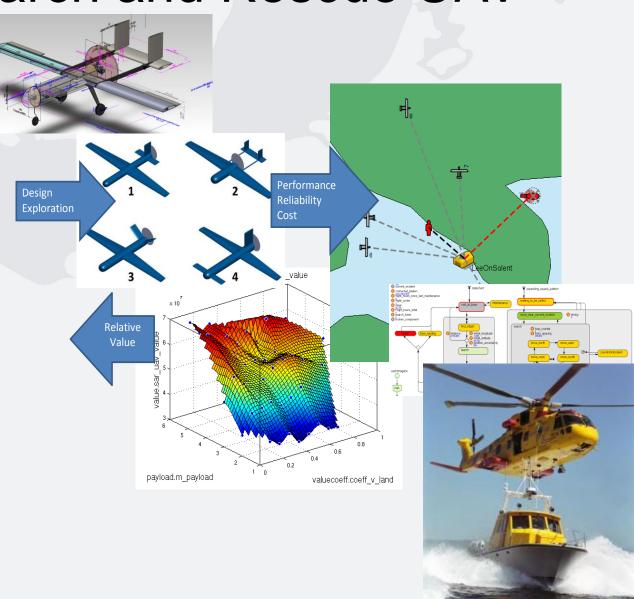
Context

 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)



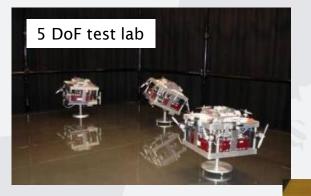
Experience of Rapid Prototyping



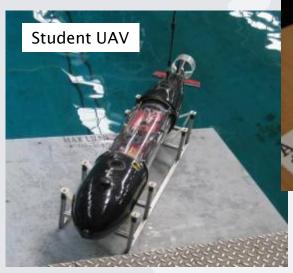
Other University Unmanned

Technology

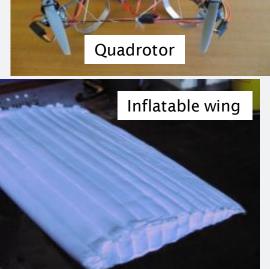












Professor Jim Scanlan

Sulsa (Southampton University Laser Sintered Aircraft) Overview



Hinges and moving parts printed in place





Finally; BBC aircraft!

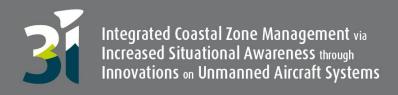




Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

Thank you all for your attention!







Opening Project Office





























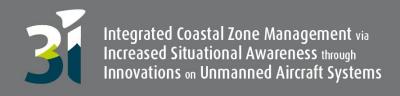












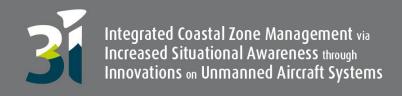


Why a 3i project office?

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







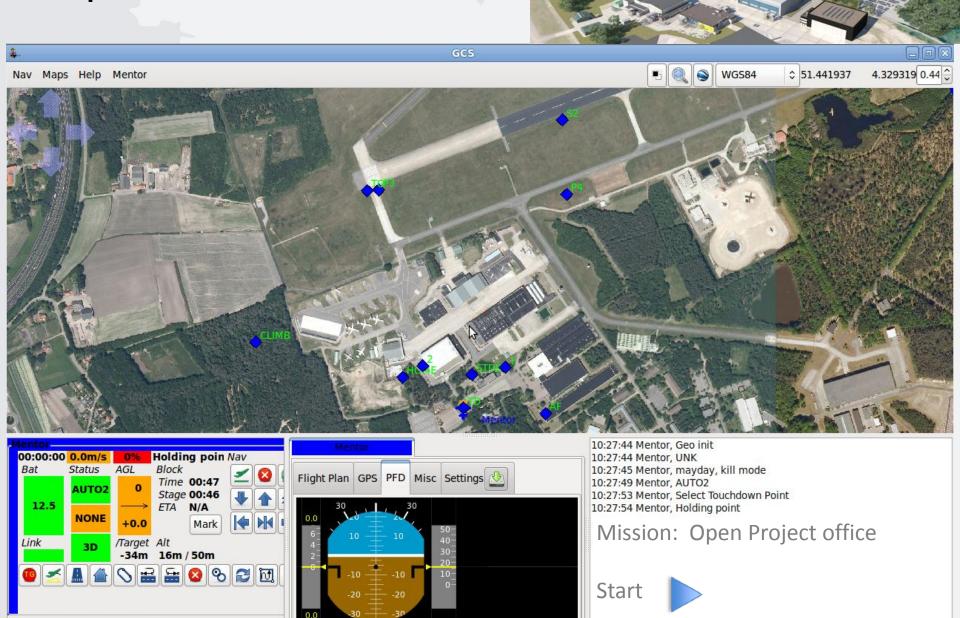


Welcome to the project partners:

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

FRANCE - ENGLAND - YLAANDEREN - NEDERLAN

Special UAV Mission



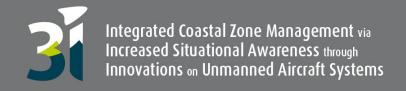


Integrated Coastal Zone Management via Increased Situational Awareness through Innovations on Unmanned Aircraft Systems

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



2007-2013 Part-financed by the European Union (European Regional Development Fund)

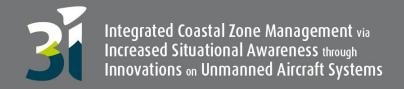




Program

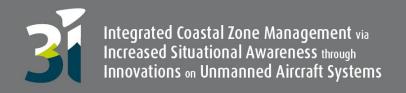
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Wrap-up morning, Start afternoon program







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



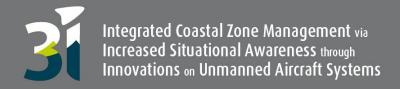


Rob Sturm

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







Rob Sturm

Local ppt







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







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

UAS Maintenance Valley

"Pieken in de Delta"

Thursday 21 June 2012

Marc Huyzer



UAS Maintenance Valley

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

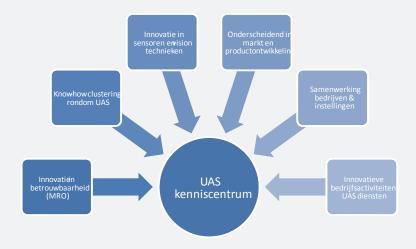






UAS Knowledge Centre Woensdrecht

- 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







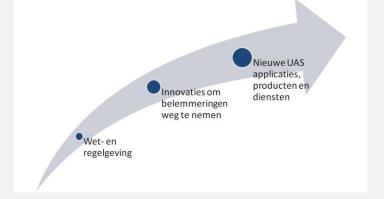




UAS Maintenance Valley

UAS Innovation Woensdrecht

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









UAS Maintenance Valley

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





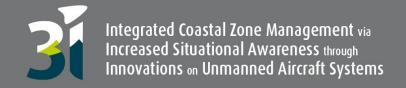




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Thank you all for your attention!







Gerard ter Buuren

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







Gerard ter Buuren

Local ppt



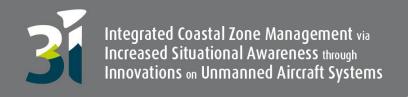




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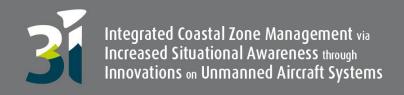




Evening Programs

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

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



Interactive workshop by:





Henk van Dijk











Henk van Dijk

Local ppt









UAS Maintenace Valley (Pieken in de Delta)

Two sub programs:

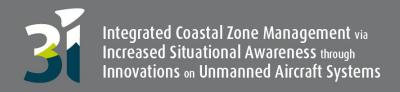
UAS Centre of Expertise, Woensdrecht

- 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 techonogies
- Prototyping/testing/certifying





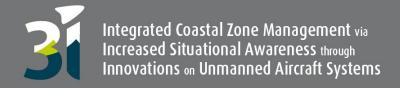




Inspiring notes workshop!

- 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

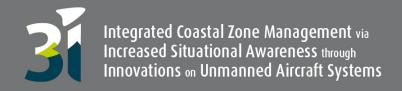






Conclusions and further actions







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





Anton van der Wijst

Day ending & invitation to reception, on behalf of:









































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

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





"Investing in your future"

Crossborder cooperation programme 2007-2013 Part-financed by the European Union (European Regional Development Fund)