INVITATION FOR THE DIGITAL INNOVATION EXPO '24

Dear All,

We are thrilled to invite you to the **Digital Innovation Expo 2024!** This year's theme, "Collaborate to Innovate," celebrates the power of partnerships in driving technological progress. Join us for a day filled with live demonstrations, insightful talks, and inspiring projects from the investment team on Data Driven Discovery in a Changing Climate, all addressing some of today's most pressing challenges.

Event Details:

- **Date:** Wednesday, 6th November, 2024
- **Time:** 09:00 - 17:00
- **Location:** Impulse, WUR Campus

What to Expect:

☀️ **Live Demonstrations:** See groundbreaking technology in action.

🎨 **Artist Exhibit:** Balancing Bodies by Eusebi Jucglà.

🌍 **Data Driven Discovery in a Changing Climate Project Session:** Insightful presentations by the investment team.

🎤 **Inspiring Talks:** Hear from experts on how digital innovation can address climate change and other global challenges.

🤝 **Networking Opportunities:** Connect with innovators, researchers, and industry experts.

We look forward to seeing you at the Digital Innovation Expo 2024! Don't miss this opportunity to be part of a community that is pushing the boundaries of technology and innovation.

🔗 **Register Here:** https://forms.office.com/e/aUPeZvmmv6

For any further information, feel free to reach out to us at digitalinnovationexpo@wur.nl.

Best regards,

The Digital Innovation Expo,

Data Driven Discovery in a Changing Climate (D3-C2), and

Ministerie van Landbouw, Visserij, Voedselzekerheid en Natuur (LVVN) Team.

PROGRAMMES DIGITAL INNOVATION EXPO 2024

Digital Innovation Expo 2024 - Schedule of Events

Main Expo Schedule:

Time	Activity / Session	
9:00 – 9:30	Walk-in	
9:30 – 9:40	Opening Words	
9:40 - 9.45	Welcome and Artist Exhibit	
9:45– 17:00	Innovation Exposition	
9:45 - 12:00	Demo Session: Presentations by Innovators	
12:00 - 13:00	Lunch	**Data Driven Discovery in a Changing Climate (D3C2) Side Session** Location: Room 16+17 of Vitae (building 123)
13:00 - 13:15	Carolien Kroeze (Rector Magnificus WU)	
13:15 - 14:00	Sharon Penseel (Digital Shapers)	
15:00 - 15:30	Pitches	
15:30 – 16:45	Demo Session: Presentations by Innovators	
16:45 - 17:00	Announcement Pitch Battle winner	
17:00 - 18:00	Networking and drinks	

Data Driven Discovery in a Changing Climate (D3C2) Session

The past 3 years in this WUR Investment Theme we have explored the opportunities offered by AI for data-driven discoveries to better understand climate change impacts and to develop new solutions to adapt to a changing climate. In total 4 flagships, 30 projects, and 7 wildcards were funded to approach this challenge from all different angles. On November 6 the main outcomes and future look-out of the flagships on Data-Driven Discoveries in a Changing Climate (D3-C2) will be presented, after which a joint discussion will follow to address the major challenges and solutions.

Time	Activity
13:00-13:10	Walk-in
13:10-13:20	Intro (by Yvette & Ioannis)
13:20-13:50	Presentation: Hybrid Machine Learning process-based modelling approaches for climate adaptation strategies (George van Voorn)
13:50-14:20	Presentation: Towards Climate Resilience: The nature-based adaptation planning toolbox (Confidence Duku)
14:20-14:40	Break
14:40-15:10	Presentation: Applying deep learning to proactively anticipate and adapt to climate-driven disease outbreaks: lessons from vector-borne and food-borne diseases (Ingrid van de Leemput)
15:10-15:40	Presentation: (4) HeatSense: Data-driven climate change adaptation in livestock (Malou van der Sluis)
15:40-16:00	Discussion: Input through Wooclap (bring your mobile!) Led by Yvette & Ioannis

Location: Room 16+17 of Vitae (building 123)

Highlighted Expo Demonstrations:

Presenter	Title of the demonstration
Leonieke Bulk, van den	Using large language models to extract food safety hazards from the scientific literature
Chao Zhang	Rapid detection of salmon louse larvae in seawater based on machine learning
Xinxin Wang	Sága, a Deep Learning Spectral Analysis Tool for Fungal Detection in Grains — A Case Study to Detect Fusarium in Winter Wheat
Ard Nieuwenhuizen	Robotics demonstrations: • Arable farming robotics [dynamic rerouting of mobile field robot can be outside] • Learning from demonstration for harvesting [setup with robot indoors] • Livestock robotics - 'Cooperative robots for a clean dairy barn environment' [table game play scenario]
Theodoor Akkerboom	Graphical User Interface for automatic survival prediction of undersized flatfish
Will Hurst	DigiFungi
Kees Lokhorst	Cooperative robots for a clean dairy barn environment
Elles te Winkel	Digital Twin, real time stikstofstromen op agrarische bedrijven.
Cristina Huidiu	How will Language models change scientific search and discovery? Our journey so far
Christina Cappello	Counting cocoa pods on a tree using a mobile app and machine learning
Arjan Vroegop	Interactive 3D simulation environments for Vision + Robotics
Robert Ven, van de	Learning from Demonstration for Harvesting: Setup with robot indoors
Harmen Doekes	RAMSMART: a tool for Real-time, Automated and Multi-Species Monitoring of animal Activity in Research Trials
Johan Bucher	BABETTE, an 4D plant reconstruction platform
Liesbeth Luijendijk / Remco Suer	Next generation sensors for emission and environment monitoring
Michele Tufano	EatPol: Tracking eating behavior in real-time
Marielle Timmer	Data driven targeted nutrition
Lorijn Rooijen, van	Food Research Synergizer
Gitte Schober	Wageningen Impact Catalyst AI Buddy

D3-C2 Project Session:

Presenter	Project
George van Voorn	Hybrid Machine Learning process-based modelling approaches for climate adaptation strategies
Confidence Duku	Towards Climate Resilience: The nature-based adaptation planning toolbox
Ingrid van de Leemput	Applying deep learning to proactively anticipate and adapt to climate-driven disease outbreaks: lessons from vector-borne and food-borne diseases
Malou van der Sluis	HeatSense: Data-driven climate change adaptation in livestock

Pitch Highlights:

Presenter	Pitch
Ard Nieuwenhuizen	Robotics demonstrations: • Arable farming robotics [dynamic rerouting of mobile field robot can be outside] • Learning from demonstration for harvesting [setup with robot indoors] • Livestock robotics - 'Cooperative robots for a clean dairy barn environment' [table game play scenario]
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