Welcome to the NAG - AI SIG

3RD MEETING, 2024-11-26
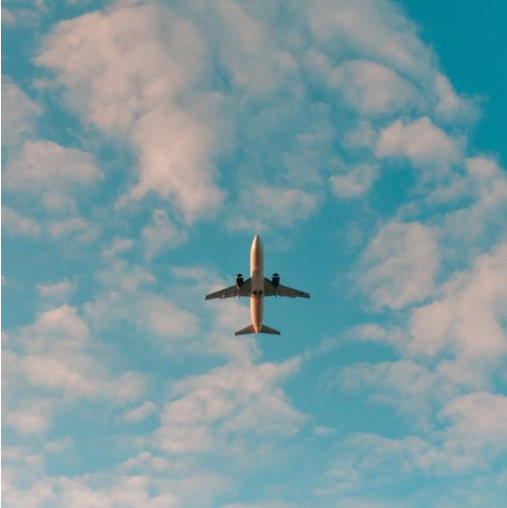
AI SIG - Agenda

13.20   Welcome by **Edwin Poldermans**, Site Director Fokker Services Group Woensdrecht

13:30   Introduction by **Stephen Hands**, Chairman AI-SIG and Senior Associate at Unified International

13.40   **Luca Casciola**, aviation consultant and BI analyst "update on the insights shared in the previous events

14:05   **Frits Hoeve**, Brainport Industries: "AI in Manufacturing & AI in Maintenance"

14:55   Break

15.15   **Henk Akkermans**, World Class Maintenance "The roles of AI in the smart maintenance cycle"

15:40   **Paolo Monti**, KLM E&M "Analytics in Operations: Line Maintenance Scheduling Optimization at Schiphol"

16:05   Q&A after all the presentations & Voting topics for a follow up meeting

16:30   Network drink

17:00   End of program

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Stephen Hands, Chair AI-SIG and Senior Associate at Unified International

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End to end Aviation & Defence experts

STRATEGY & GROWTH

DEVELOPMENT & OPERATIONS

AI

Artificial intelligence (AI) is a fascinating and transformative technology that has the potential to significantly enhance many aspects of life, work, and society.

Positive Aspects

1. Efficiency and Automation
2. Personalization
3. Problem Solving
4. Accessibility

Challenges and Considerations

1. Ethics:
2. Job Displacement:
3. Dependence:
4. Control & Governance:

Ultimately, AI is a tool. How society chooses to develop and deploy it will determine its impact. With thoughtful, ethical, and inclusive design.

AI has the potential to address significant global challenges and improve lives.

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"AI – Quote"

Me:

- What do you think would be a one line message over AI that in the future people will quote?

ChatGPT said:

- "Artificial intelligence is not about replacing humanity; it's about amplifying its potential."

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AI SIG

- This workshop aims to showcase practical AI applications in aviation, fostering knowledge exchange and collaboration opportunities among industry experts.

- This group can be the intersection where Dutch aviation companies will align on best practices on AI, express their need to issue new standards and meet providers of aviation compliant AI tools.

- Create the opportunity to learn from cross sectorial experiences

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LAST MEETINGS OUTCOME

Common topics

AI knowledge sharing.

Getting inspired, having a network.

Economy of scale growing as Dutch industry.

Focus Areas

Keep this group in aviation focus.

Look at growth funds for AI initiatives.

Create an environment in which providers can sell and aviation businesses can buy.
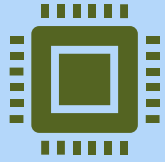
Actions

3 AI SIGs for year 2024. Present 3 use cases each meeting.

Coordinate with ohter events, startups/scaleups, partners and other SIG groups.
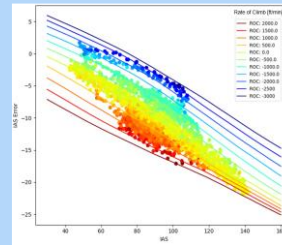
RECAP – TECHNOLOGY

History

- Innovations that lead to recent AI capabilities

Classic NN applications
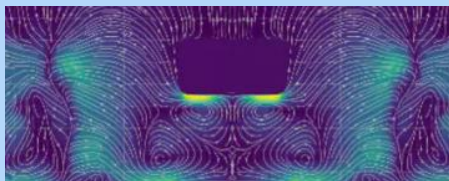
- Regressors and Classifiers

AI in computer vision

- Feature recogniton and classification

Digital Twins & Simulation

- Simulation capabilities

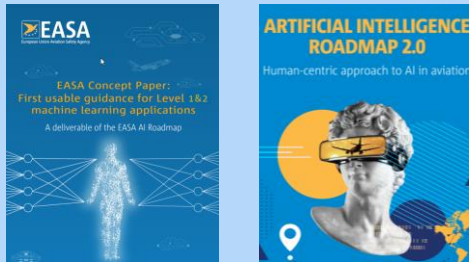## Multimodal Gen. Models

- Images, Text, Voice

RAG & AGENTS

- Company security

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RECAP – BUSINESS

Regulations (ADSE)

Impact on Organizations

- Value / Creativity chart
- Impact on repetitive routines
- Marketing

Ethics in AI

- Fairness | Bias free
- Transparency

Sustainable AI

- Environmental impact
- Energy grids under stress

Risks

- AI as a threat
- AI under threat

Costs

- OPEX
- CAPEX

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AI BUSINESS NEWS

On the horizon

- OpenAI
- Nvidia
- Palantir
- Meta
- **Anthropic (AI agents)**

Trends

25% of the Software Code is generated by an AI. Software development time reduced by 30%.

OpenAI became fully for profit. ChatGPT is now for enterprises.

Actions

Invest in IT infrastructure and Cybersecurity.

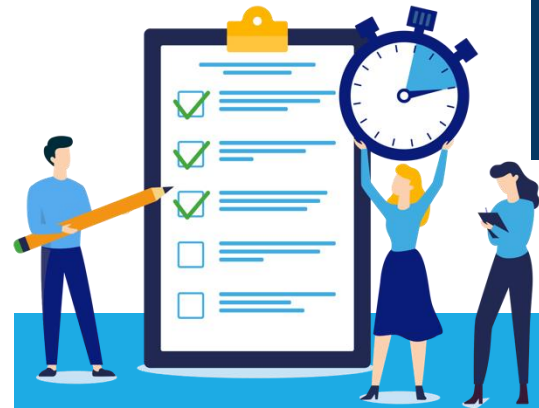Software devs. and data analysts in flexible teams.

Plan the enterprise AI strategy.

KEY TAKEWAYS

AI and ML are for 90% a Marketing term

People tend to replace effective methods with black box approach
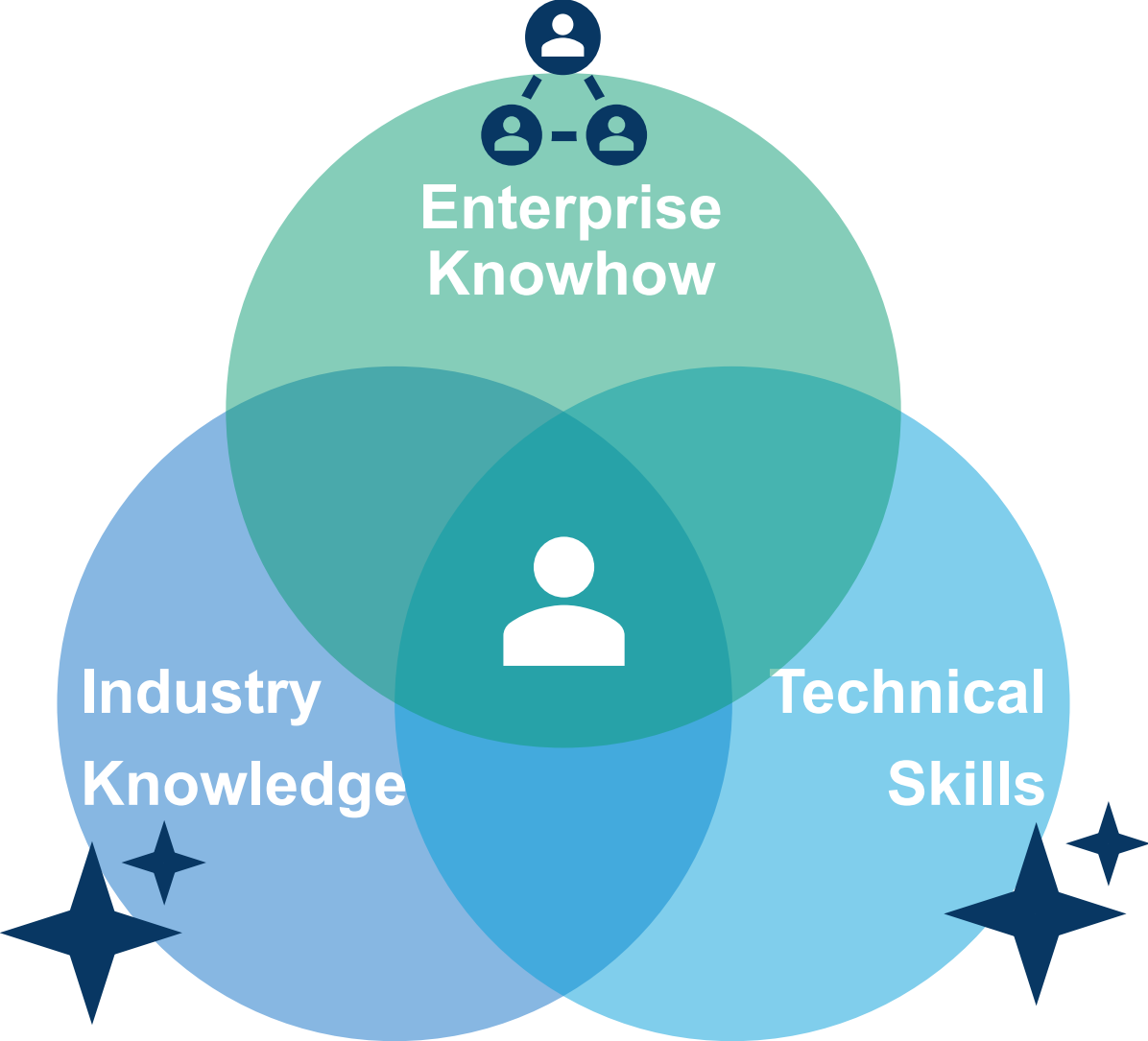
5 years for the technology to be stable

Transformational process

Companies to revise their processes and IT infrastructure

New business opportunities
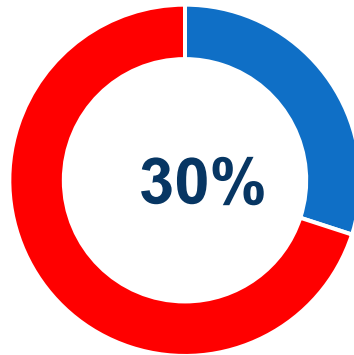
AI IN EMPLOYEE EMPOWERMENT

Enterprise
Knowhow

Industry
Knowledge

Technical
Skills

REMEBER TEMPERATURE (CREATIVITY)

High Creativity Chatbot

	Change $
Cost A	+12
Cost B	-54
Cost C	+25

Increases of +$12 in Cost A, +$25 in Cost C and
a decrease of -$54 lead to a overall increase/decrease of

?

30%

Low Creativity Chatbot

	Change $
Cost A	+12
Cost B	-54
Cost C	+25

Increases of +$12 in Cost A, +$25 in Cost C and
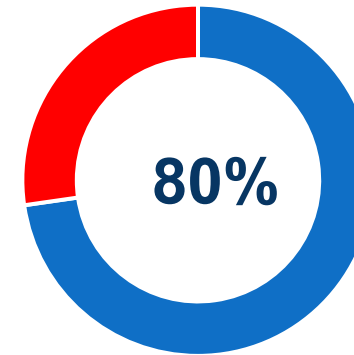a decrease of -$54 lead to a overall increase/decrease of

?

80%

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AI IN CIVIL AVIATION