Innovation


ICAO
40th
ASSEMBLY
24 SEP – 04 OCT
2019
ICAO2019
75 YEARS
OF CONNECTING THE WORLD
ICAO2019
75 YEARS
OF CONNECTING THE WORLD


INNOVATION
A41
RESILIENCE
THE 41ST ICAO
TRIENNIAL ASSEMBLY
RECONNECTING THE WORLD

ICAO INNOVATION

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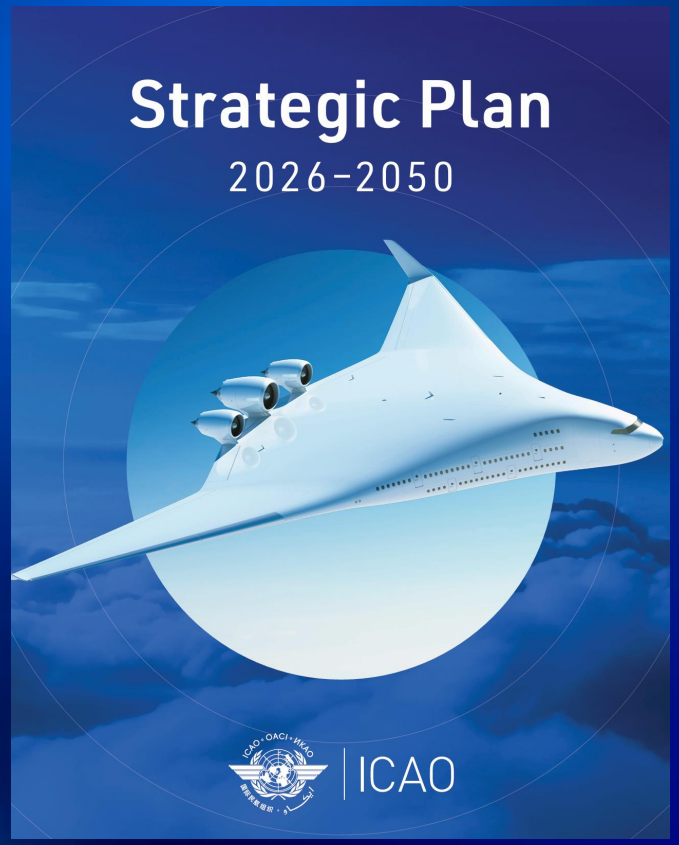

ICAO | INNOVATION

ICAO Vision

A safe, secure and sustainable international civil aviation system that connects the world for the benefit of all nations and people.

THREE ESSENTIAL ASPIRATIONS CRYSTALLIZE THIS VISION

The goal of Zero fatalities in international aviation from accidents and acts of unlawful interference.

The long term global aspirational goal of Net-zero carbon emissions by 2050 for international civil aviation operations.

The goal of aviation to serve as an integral part of a thriving, connected, accessible, inclusive, and affordable transport system for people and goods, contributing to socio-economic development, while ensuring no country is left behind.

ICAO Mission

To lead international civil aviation as a key driver of social and economic development while enhancing aviation safety, security, economic development and environmental sustainability for a growing aviation system by advancing air law, developing policies, plans and standards, monitoring and auditing, and supporting States' capabilities for the benefit of all nations and people.

ICAO provides a leadership role and forum for all matters relating to international civil aviation, which Member States and the wider aviation community expect, particularly in times of major challenges when international leadership is needed. In the spirit of leaving no country behind, ICAO consistently responds to the needs of Member States by delivering services and support where required. This includes, to the extent of its mandate, resource mobilization and capacity building, often in partnership with other institutions and collaborators. ICAO provides multiple instruments and services to Member States in several shapes and forms, including the international law instruments and regulatory frameworks necessary to underpin effective member state implementation of standards, recommended practices and guidance material that takes into account the socio-economic benefit for all Member States.

Our mission is supported by our three main processes of work: policy development and standard setting, monitoring and auditing, and implementation support.

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Where we will be in 2050

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High Priority Enablers

To successfully achieve the Strategic Goals outlined in this plan, ICAO has identified a set of High Priority Enablers. These enablers are critical cross-cutting factors that underpin the successful implementation of the Strategic Goals and ensure that the benefits of aviation are realized across all strategic areas. The High Priority Enablers focus on key areas which are essential for addressing the complex challenges facing the aviation industry. By prioritizing these enablers and integrating them into the implementation of the Strategic Goals, ICAO aims to create a more resilient, sustainable, and inclusive international civil aviation system. The progress and impact of the High Priority Enablers will be regularly monitored and assessed to ensure their effective contribution to the overall success of the Strategic Plan.

ICAO Continuous Organizational Improvement – focused on enhancing organizational efficiency to ensure the greatest possible efficiency and effectiveness in the operations of ICAO to meet the strategic goals, including Human Resource Management, Digitalization, Financial Management, Multilingualism, Governance and Accountability, and Business Operations and process management.

Innovation – recognizing the real and potential benefits and challenges that innovation can bring to the air transport sector and providing Member States with the tools, knowledge and mindsets to realize these benefits in a manner that leaves no country behind. Innovation actively promotes new solutions that support the Organization's Strategic Goals and increase the efficiency and effectiveness of ICAO. The aim is to encourage innovation to be embedded throughout ICAO's work.

Gender Equality and Attracting New Talent to Aviation – ICAO will expand on its ambition to achieve ICAO's Strategic Goals, and contribute to the UN Sustainable Development Goals, by achieving gender equality. Viewing international aviation as a vital enabler within the UN SDGs and to address multisector challenges affecting aviation, ICAO aims to expand opportunities for all as we seek out the best possible talent including the next generation of aviation professionals. By promoting and fostering fairness and impartiality for a sustainable, resilient, diverse and inclusive future of the aviation sector ICAO seeks to remove gender, diversity, equity and inclusivity barriers so as to optimally support sustainable expansion of the aviation sector, as well as the human resources needs of the Organization.

Partnerships, Resource Mobilization and Financial Sustainability – ICAO acknowledges partnerships as being intrinsically intertwined to aviation and to resource mobilization for States and the Organization, facilitating ICAO to achieve its Strategic Goals in support of the UN Sustainable Development Goals. ICAO will unite Member States, UN system organizations, agencies, funds and programmes, international associations and other stakeholders to leverage the diverse capabilities, resources and knowledge of ICAO's partners, while ensuring alignment to the Organization's principles, objectives and values, and the financial sustainability and flexibility of the Organization.

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Innovation as an enabler

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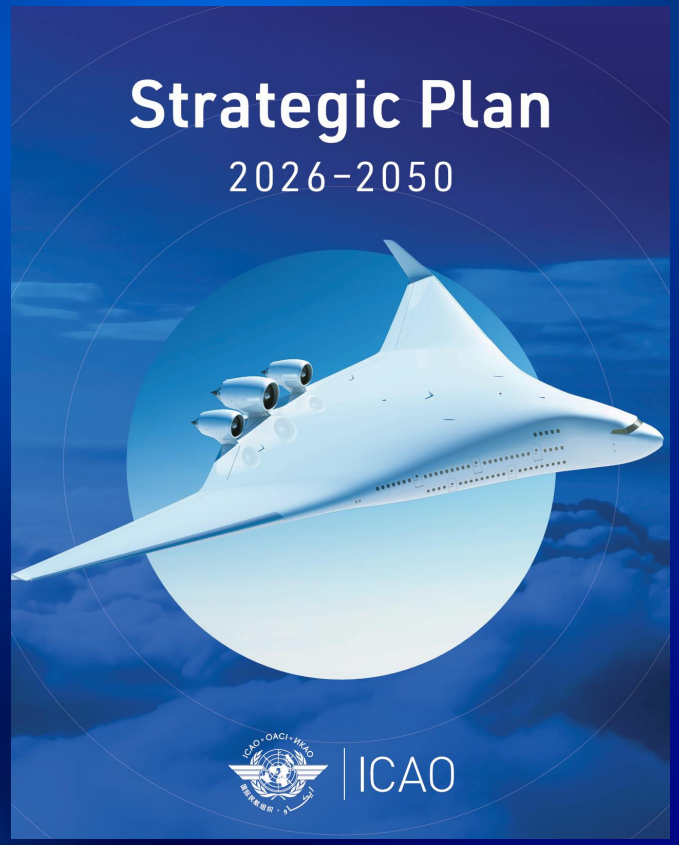

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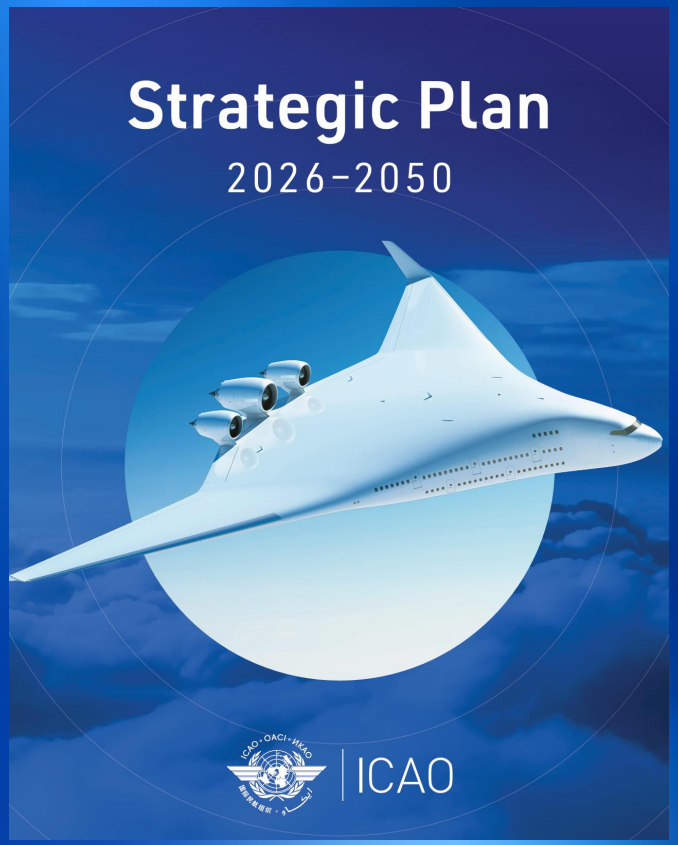

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Introduction

This policy is founded on Assembly Resolution A40-27: Innovation in aviation, which refers to articles 37 and 44 of the Chicago Convention and recognized the nature and pace of innovations. The policy is based on Council action taken on A40-27 in particular its consideration of the results of the independent assessment of innovation undertaken by the United Nations System Staff College (UNSCC).

1. OBJECTIVES

1.1. This policy is designed to enhance ICAO's role to assist Members States to benefit from innovation in the aviation sector, to address related challenges and for ICAO to develop, as needed policies, standards, other provisions[1] and tools that support the continuing improvement of safety, efficiency, security, facilitation, economic and environmental sustainability of international air transport in a timely and technology agnostic manner, and in accordance with the strategic goal of No Country Left Behind (NCLB).

1.2. This policy facilitates the development and deployment of innovation in international aviation by Member States and ensure that all States have a fair opportunity to develop and deploy innovations in aviation.

1.3. This policy also guides the identification and implementation of innovation to increase the effectiveness and efficiency of the Organization.

Note.— This policy is linked to the High Priority Enabler on "Innovation Strategy" contained in the Strategic Plan of ICAO)

1.4. This policy aims to:

a) *Provide a strategic vision of the role of ICAO on innovation.* Outline what ICAO intends to achieve through its innovation initiatives, and how it identifies, communicates and builds strategic relationships.

b) *Ensure the timely development of global policies and standards related to innovations.* Provide a framework that will help ensure the timely analysis of the need to develop global policies, standards, and other provisions in a technology agnostic manner, and tools that support the continuing advancement of innovation in the international aviation sector, while avoiding the adoption of premature innovations

c) *Promote an environment where innovation in aviation can flourish in all ICAO regions* in line with the No Country Left Behind (NCLB) initiative.

d) *Make innovations known and accessible to all States.* Proactively engage with all States on potential benefits of innovation in aviation and support their implementation and interoperability, taking into account national and regional circumstances.

e) *Strengthen ICAO's engagement with stakeholders* to facilitate innovation in pace with the rapid nature of its development in the aviation sector.

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THE FORTY-SECOND ICAO ASSEMBLY

A42

SAFE SKIES. SUSTAINABLE FUTURE.

23 SEPTEMBER - 3 OCTOBER 2025 | MONTRÉAL, CANADA

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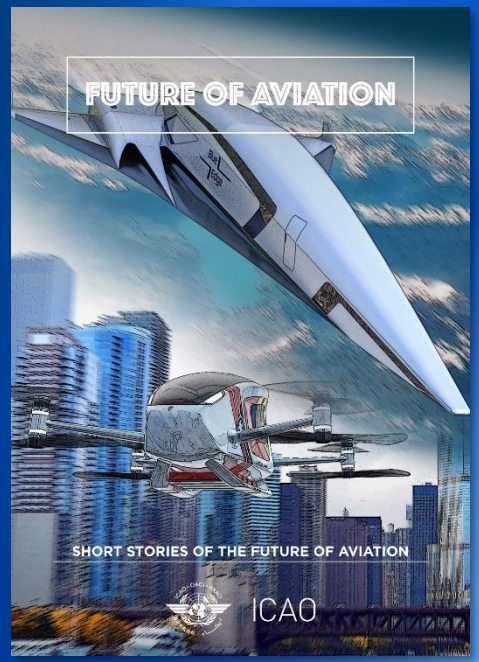

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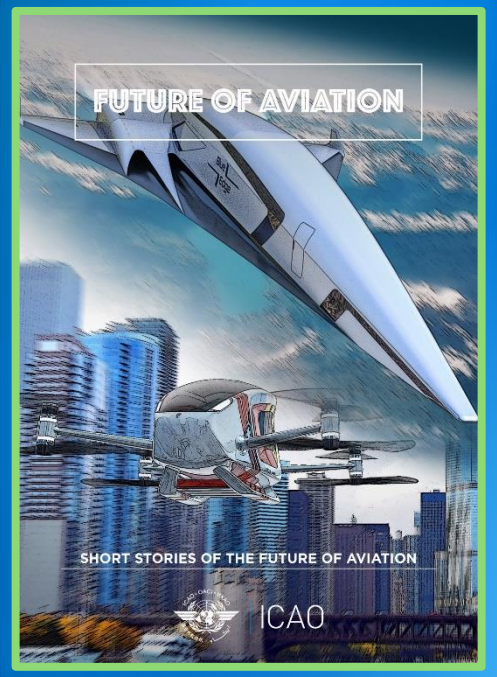

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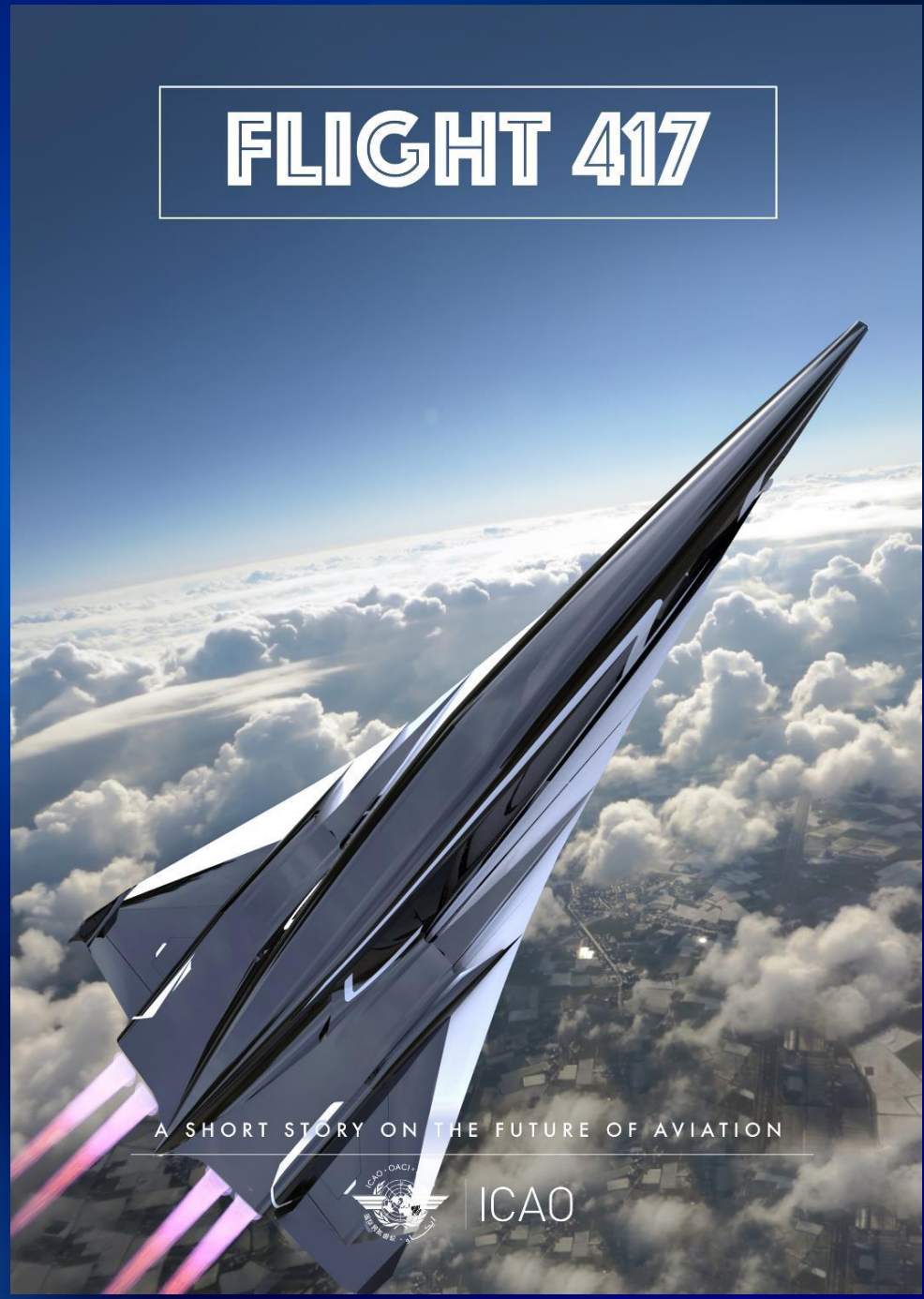
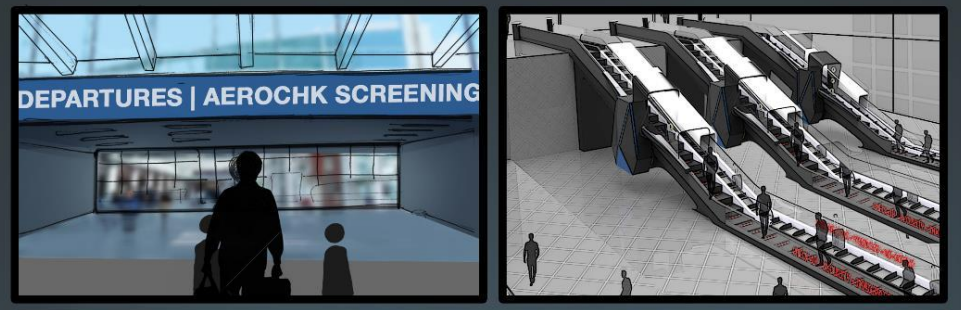
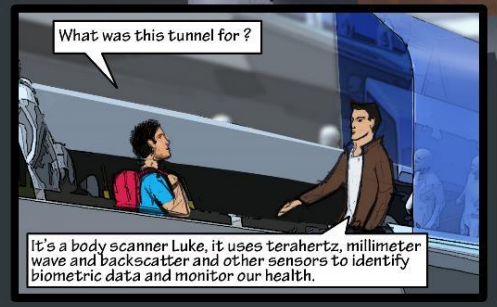



Montreal, Sept 21 2035, 4 pm
Hi honey! We're boarding the REM & heading to the airport. I'll call you as soon as we arrive in Perth. Love you, Bye!
RSMR-653
Check it out dad! My virtual friend Aeon just invited me to her party !
That's cool Leia! Make sure you keep your personnal data private. You don't know this AI well enough…


DEPARTURES | AEROCHK SCREENING
What does this escalator do dad?
It scans our passport & luggage. It also completes registration, security and immigration all at once!
What was this tunnel for ?
it's a body scanner Luke, it uses terahertz, millimeter wave and backscatter and other sensors to identify biometric data and monitor our health.
And we're now good to go!


DEPARTURES | AEROCHK SCREENING

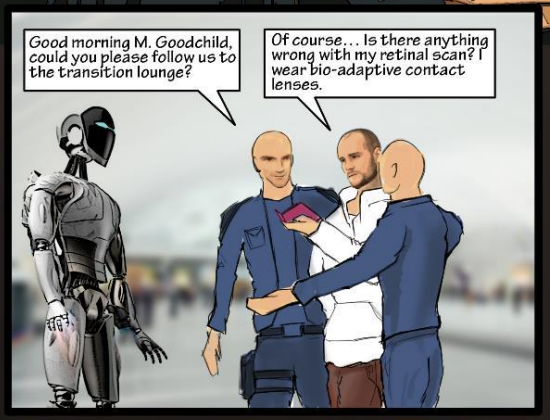

What does this escalator do dad?
It scans our passport & luggage. It also completes registration, security and immigration all at once!


What was this tunnel for ?
It's a body scanner Luke, it uses terahertz, millimeter wave and backscatter and other sensors to identify biometric data and monitor our health.


And we're now good to go!

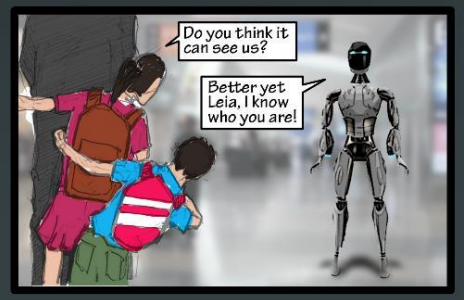

In the meantime, airport security is monitoring the automated check-in process. Machine learning programs are improving efficiency on a daily


Robots are tasked with handling suspect luggage and assist security agents…

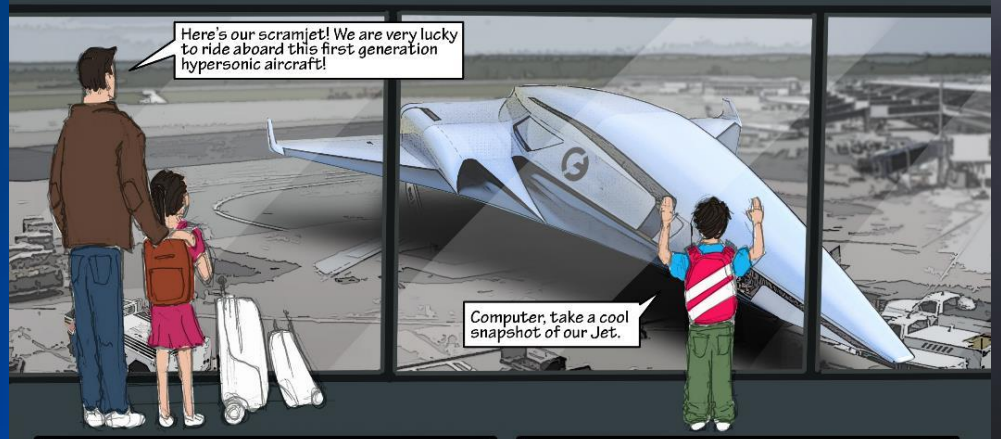

Good morning M. Goodchild, could you please follow us to the transition lounge?
Of course… Is there anything wrong with my retinal scan? I wear bio-adaptive contact lenses.

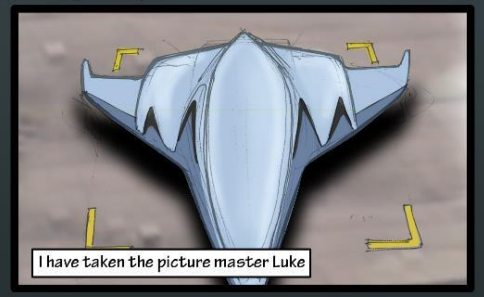

Check-in luggage Scanning unit #46
Food & beverages scanning unit #78
Underground conveyors transport checked-in luggage to every aircraft. Food is also scanned and inspected.

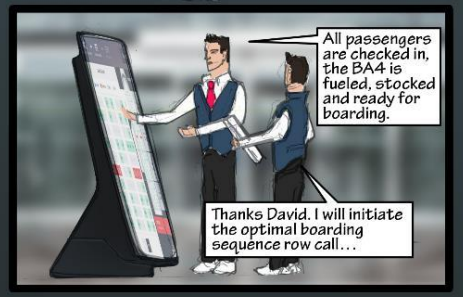

Wow check it out Leia! They're selling vintage AI friends with emotionnal responses!


Do you think it can see us?
Better yet Leia, I know who you are!


Hmm R. Daneel... that's an unusual name!
I learned about the 3 laws of robotics in school, I hope you are programmed to follow them!


Here's our scramjet! We are very lucky to ride aboard this first generation hypersonic aircraft!
Computer, take a cool snapshot of our Jet.


I have taken the picture master Luke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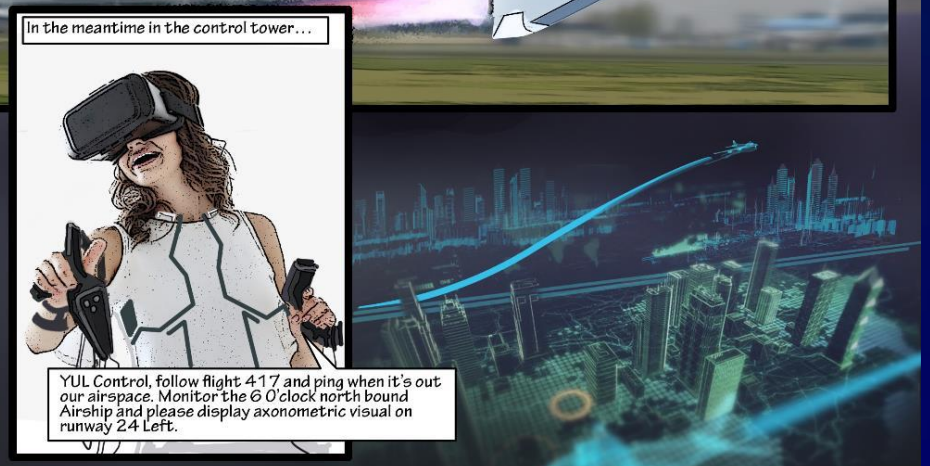
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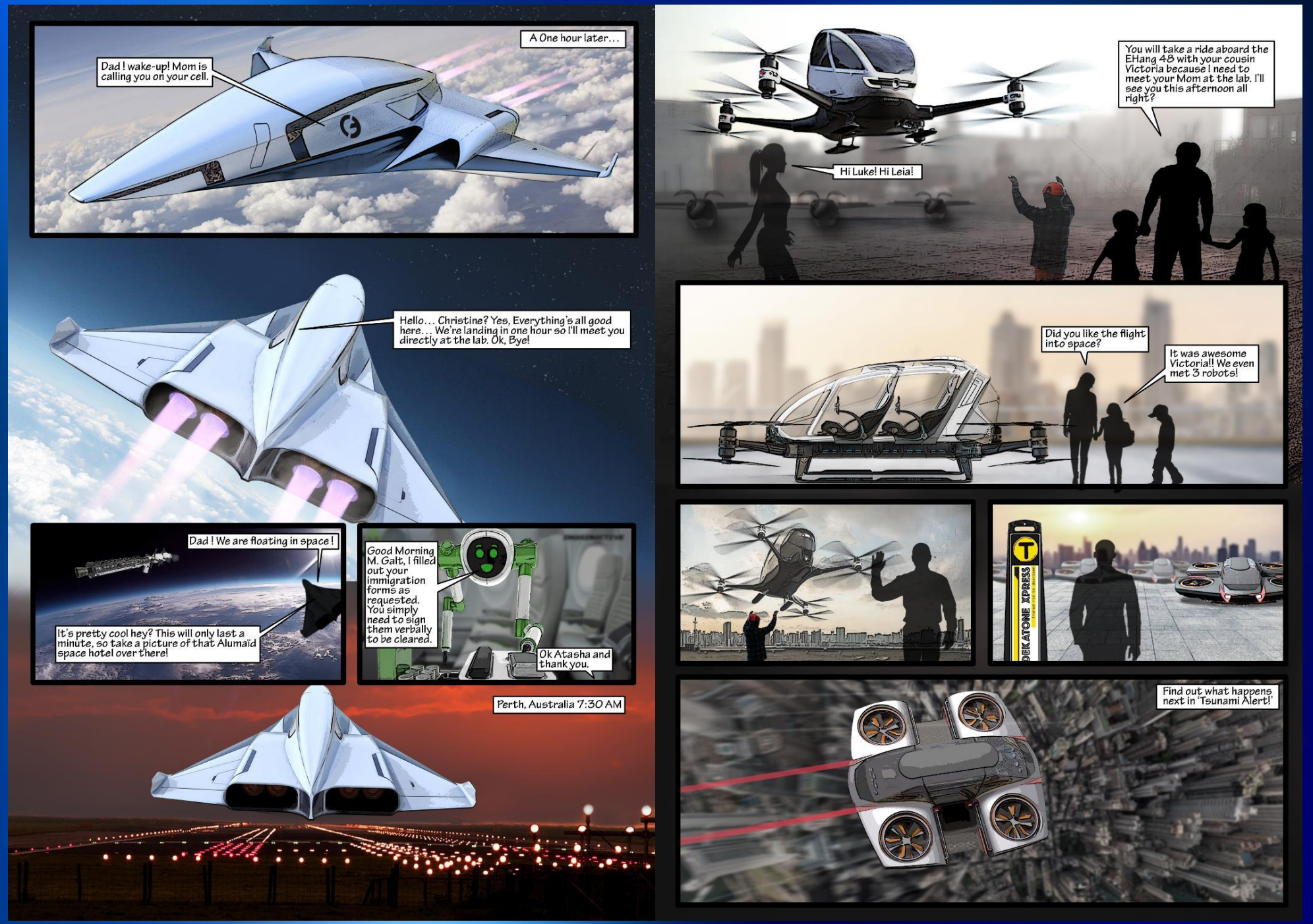

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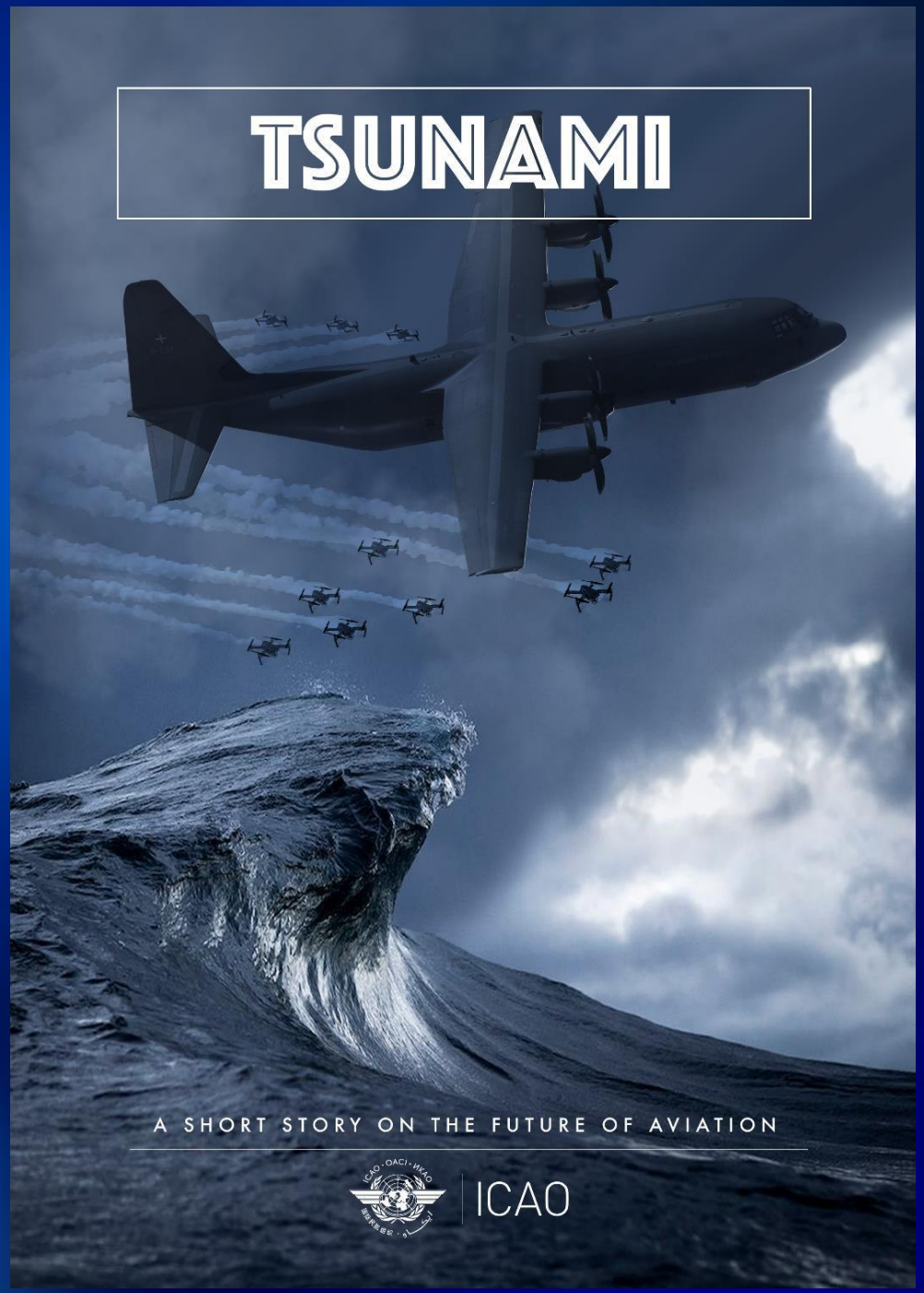
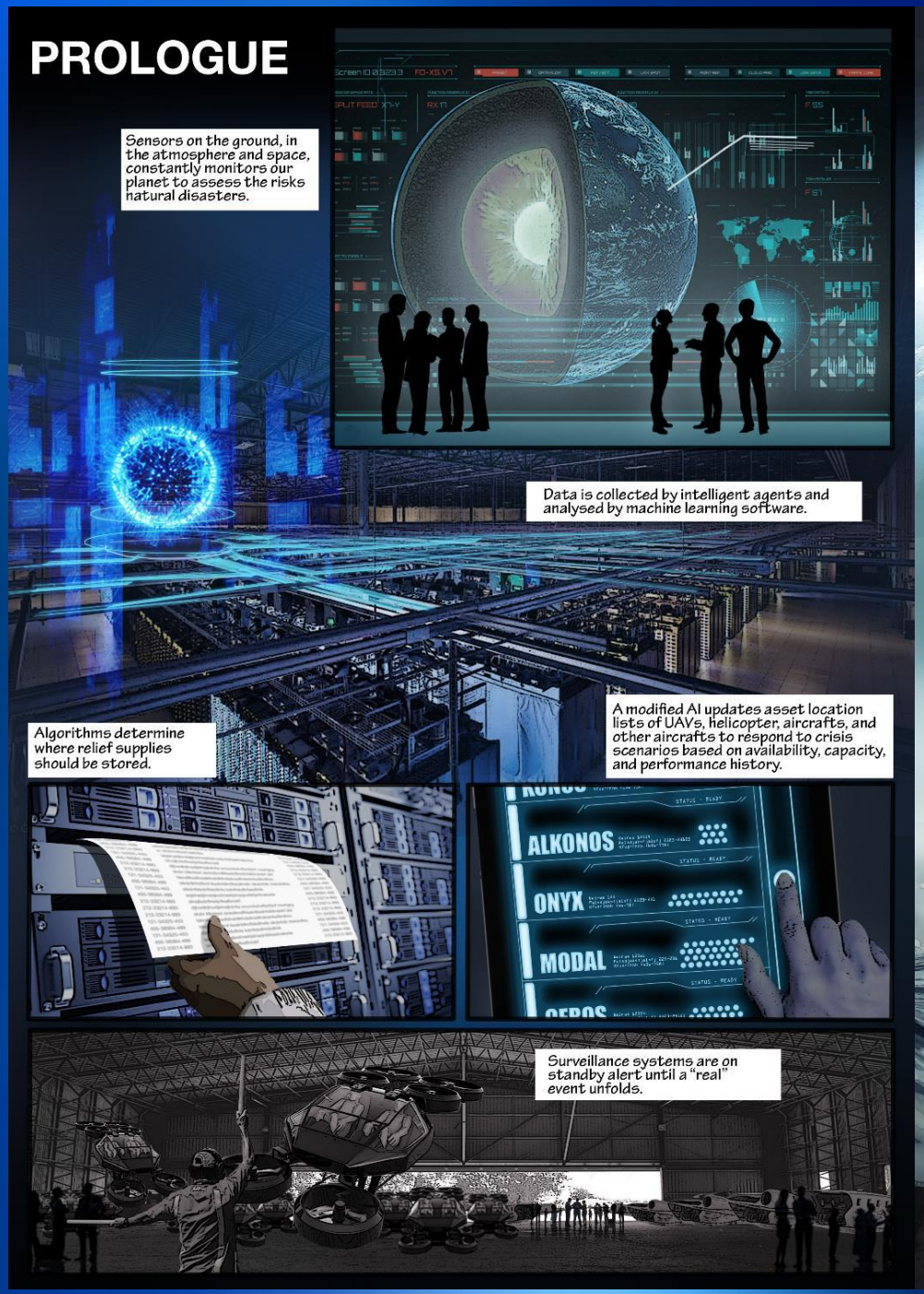
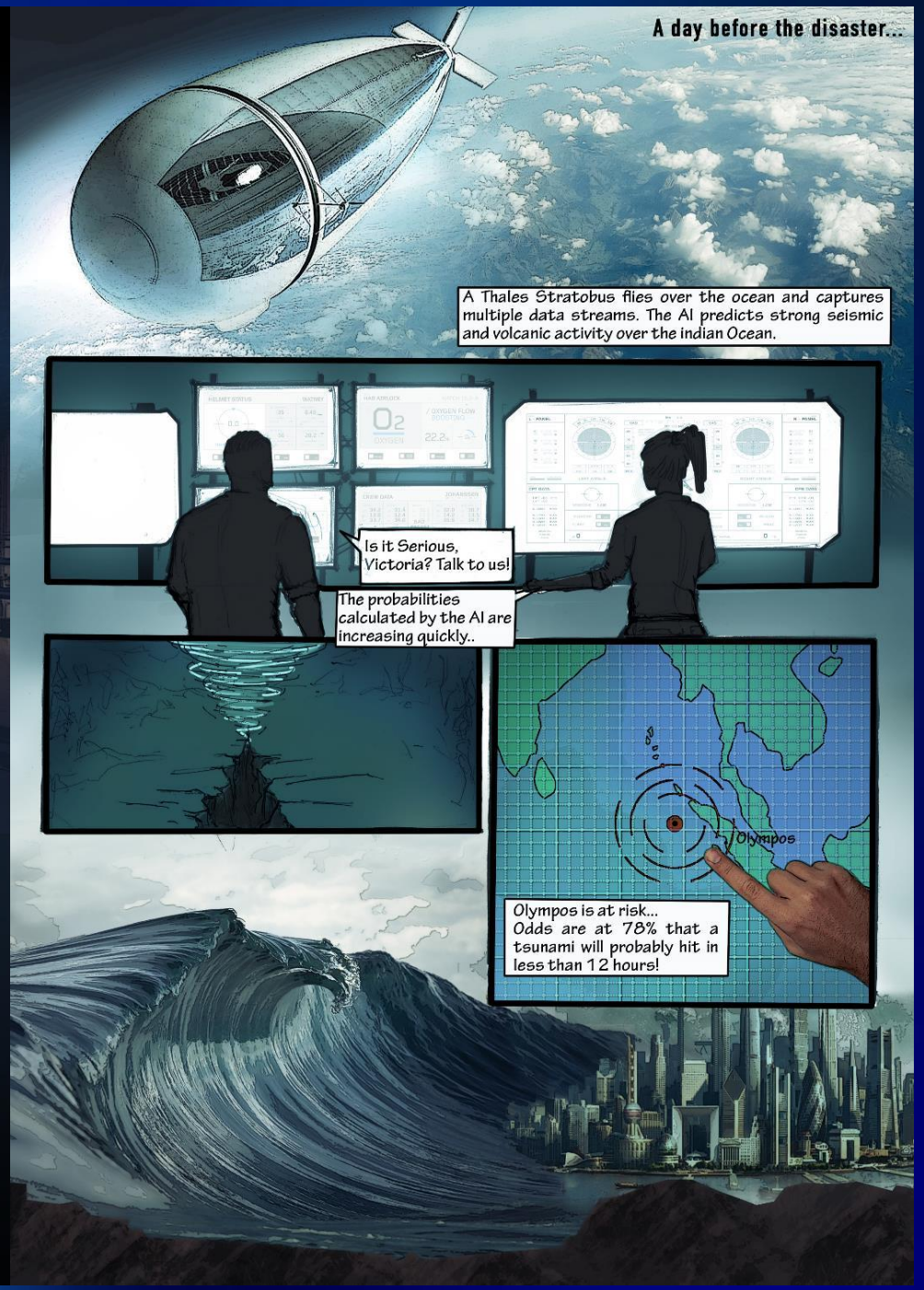


PROLOGUE





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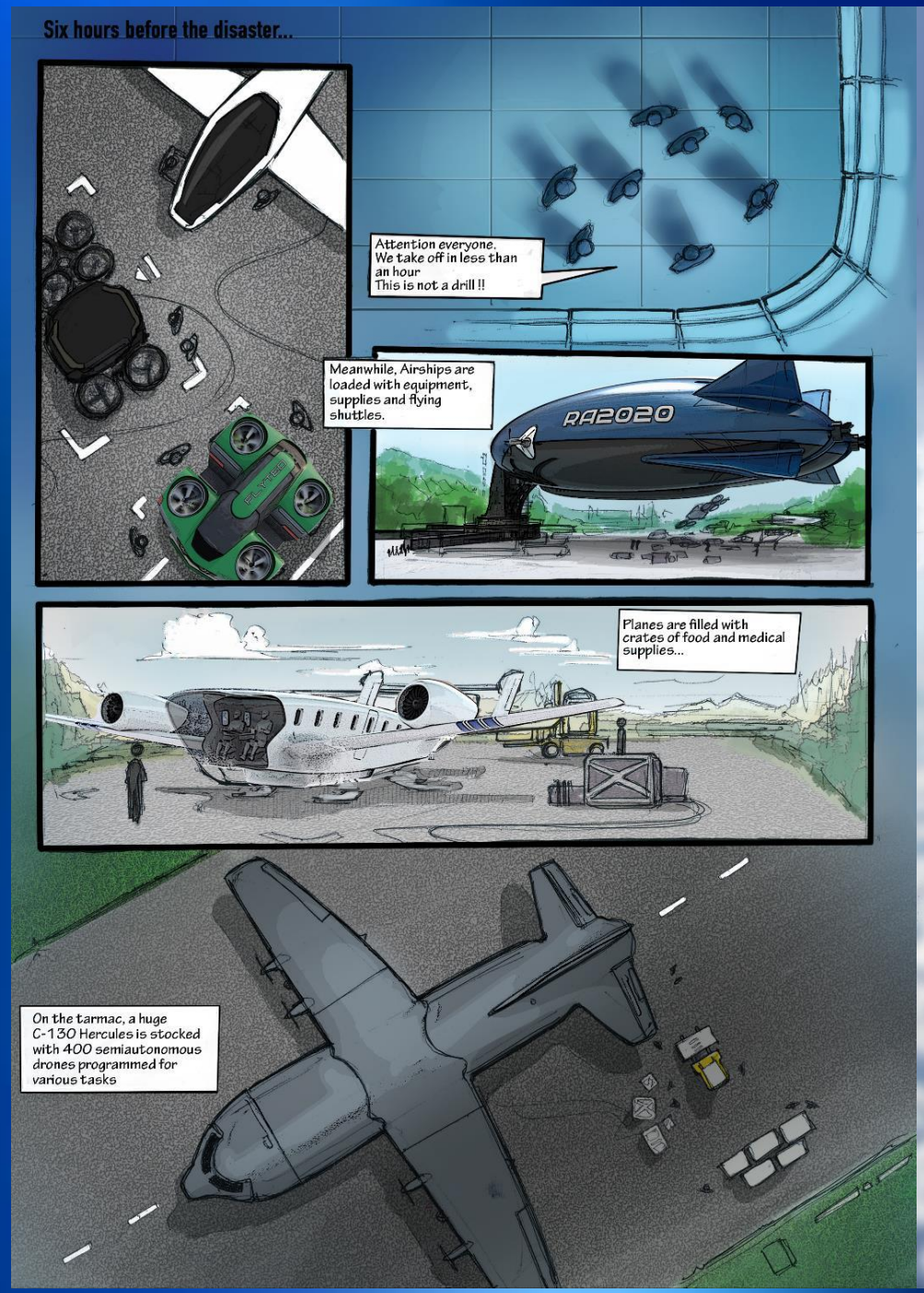
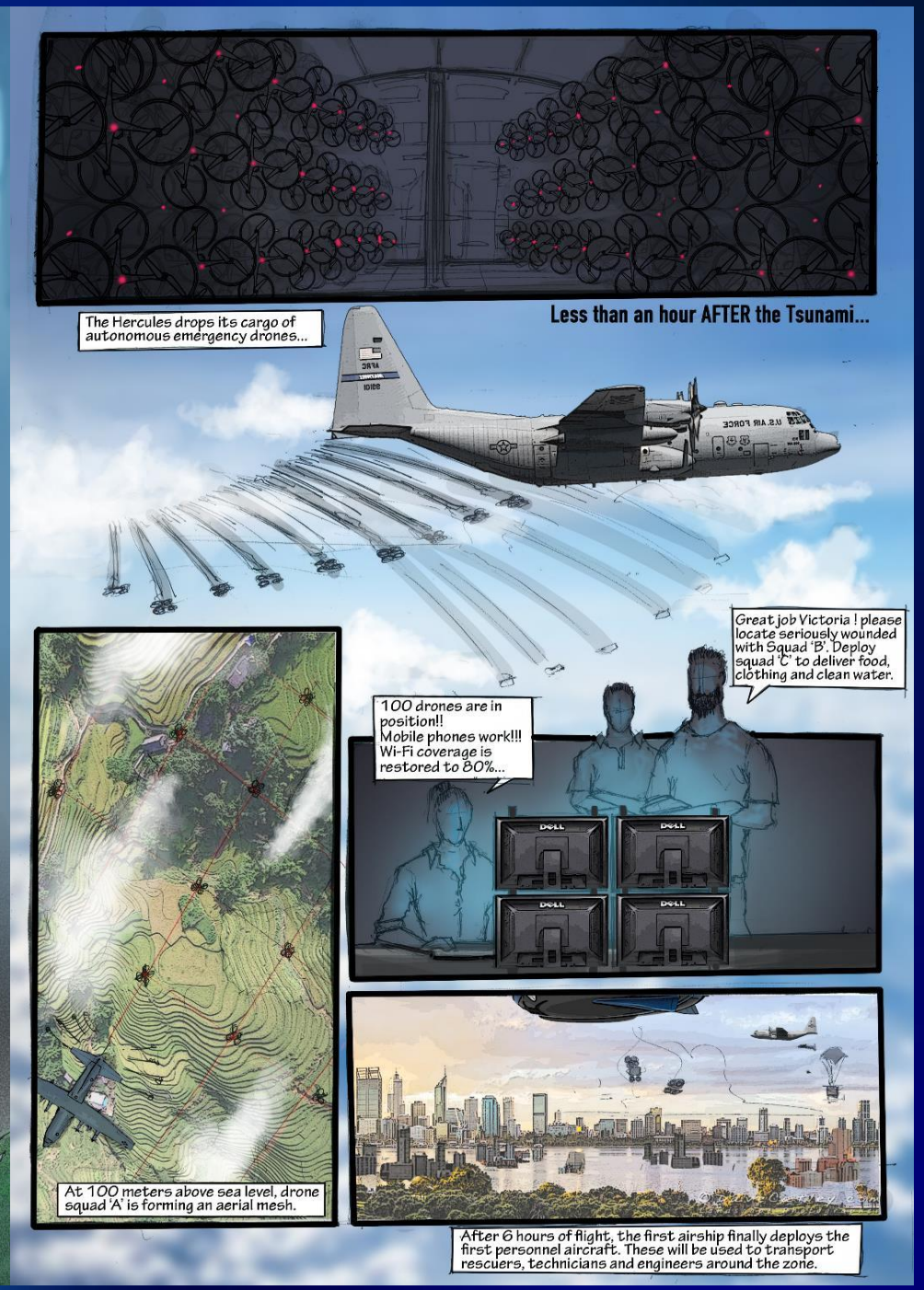
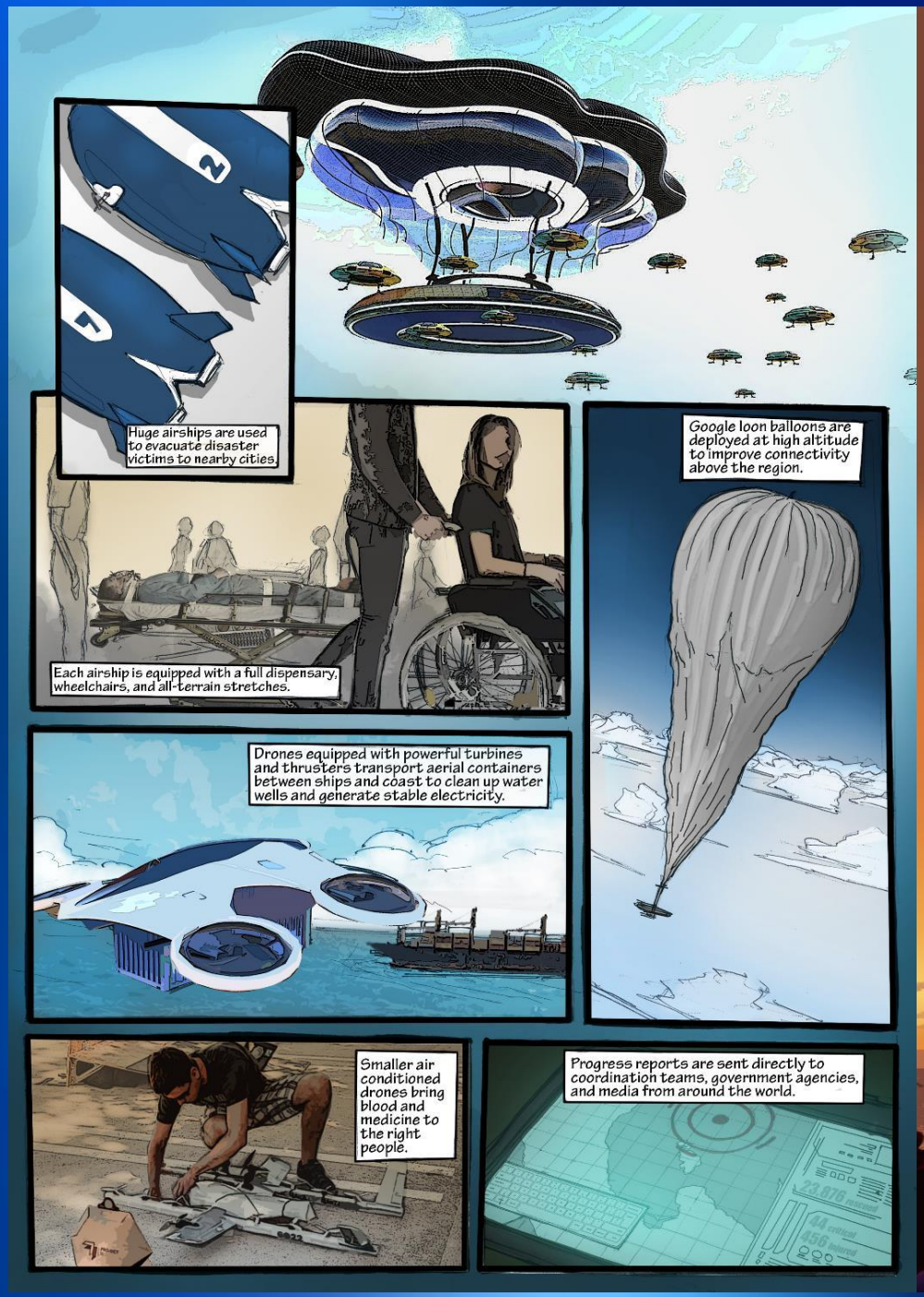
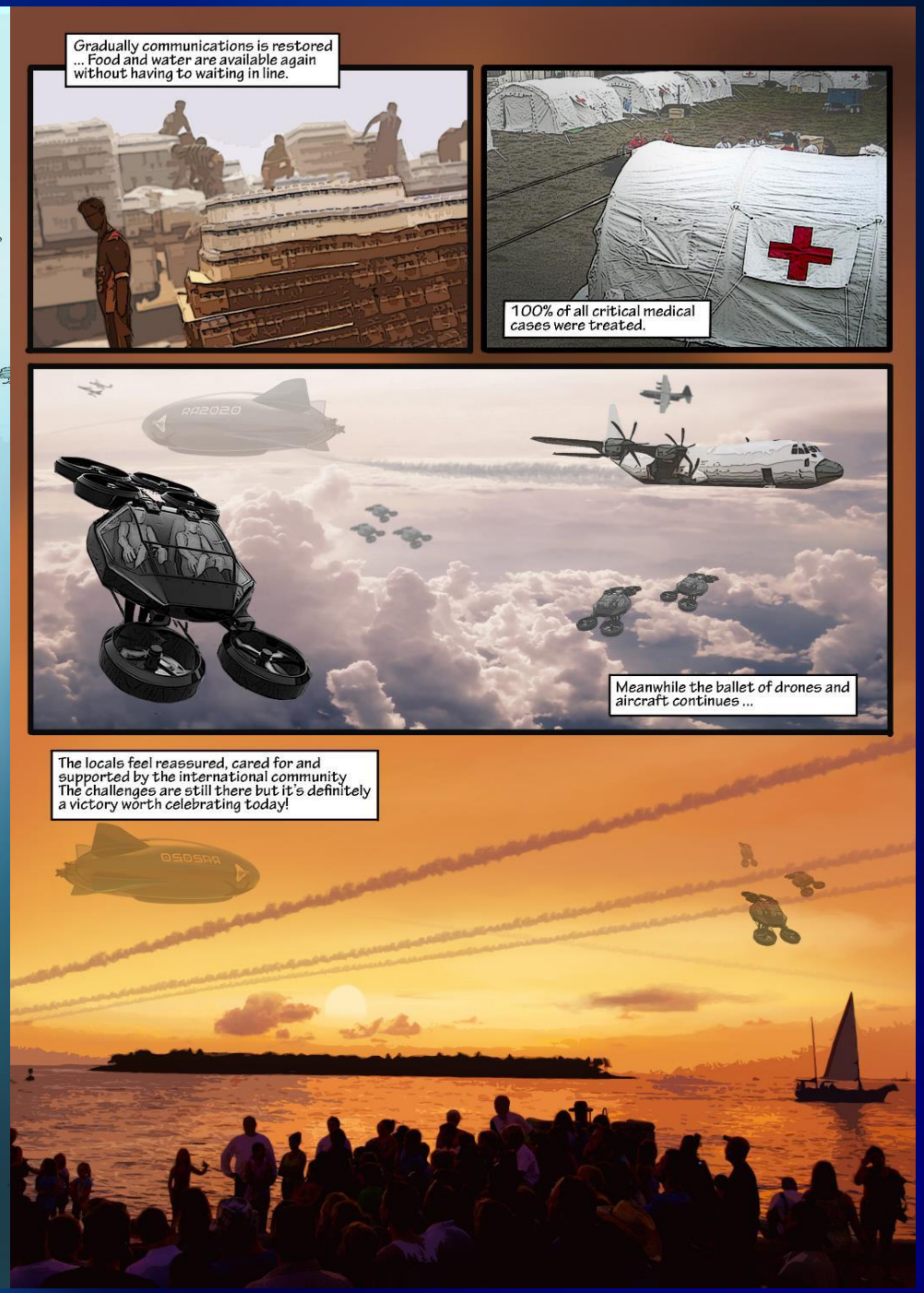

Six hours before the disaster...
Attention everyone.
We take off in less than an hour
This is not a drill !!
Meanwhile, Airships are loaded with equipment, supplies and flying shuttles.
RA2020
Planes are filled with crates of food and medical supplies...
On the tarmac, a huge C-130 Hercules is stocked with 400 semiautonomous drones programmed for various tasks


The Hercules drops its cargo of autonomous emergency drones...
Less than an hour AFTER the Tsunami...
Great job Victoria ! please locate seriously wounded with Squad 'B'. Deploy squad 'C' to deliver food, clothing and clean water.
100 drones are in position!!
Mobile phones work!!!
Wi-Fi coverage is restored to 80%...
At 100 meters above sea level, drone squad 'A' is forming an aerial mesh.
After 6 hours of flight, the first airship finally deploys the first personnel aircraft. These will be used to transport rescuers, technicians and engineers around the zone.


Huge airships are used to evacuate disaster victims to nearby cities.
Each airship is equipped with a full dispensary, wheelchairs, and all-terrain stretches.
Google loon balloons are deployed at high altitude to improve connectivity above the region.
Drones equipped with powerful turbines and thrusters transport aerial containers between ships and coast to clean up water wells and generate stable electricity.
Smaller air conditioned drones bring blood and medicine to the right people.
Progress reports are sent directly to coordination teams, government agencies, and media from around the world.


Gradually communications is restored ... Food and water are available again without having to waiting in line.
100% of all critical medical cases were treated.
Meanwhile the ballet of drones and aircraft continues ...
The locals feel reassured, cared for and supported by the international community The challenges are still there but it's definitely a victory worth celebrating today!

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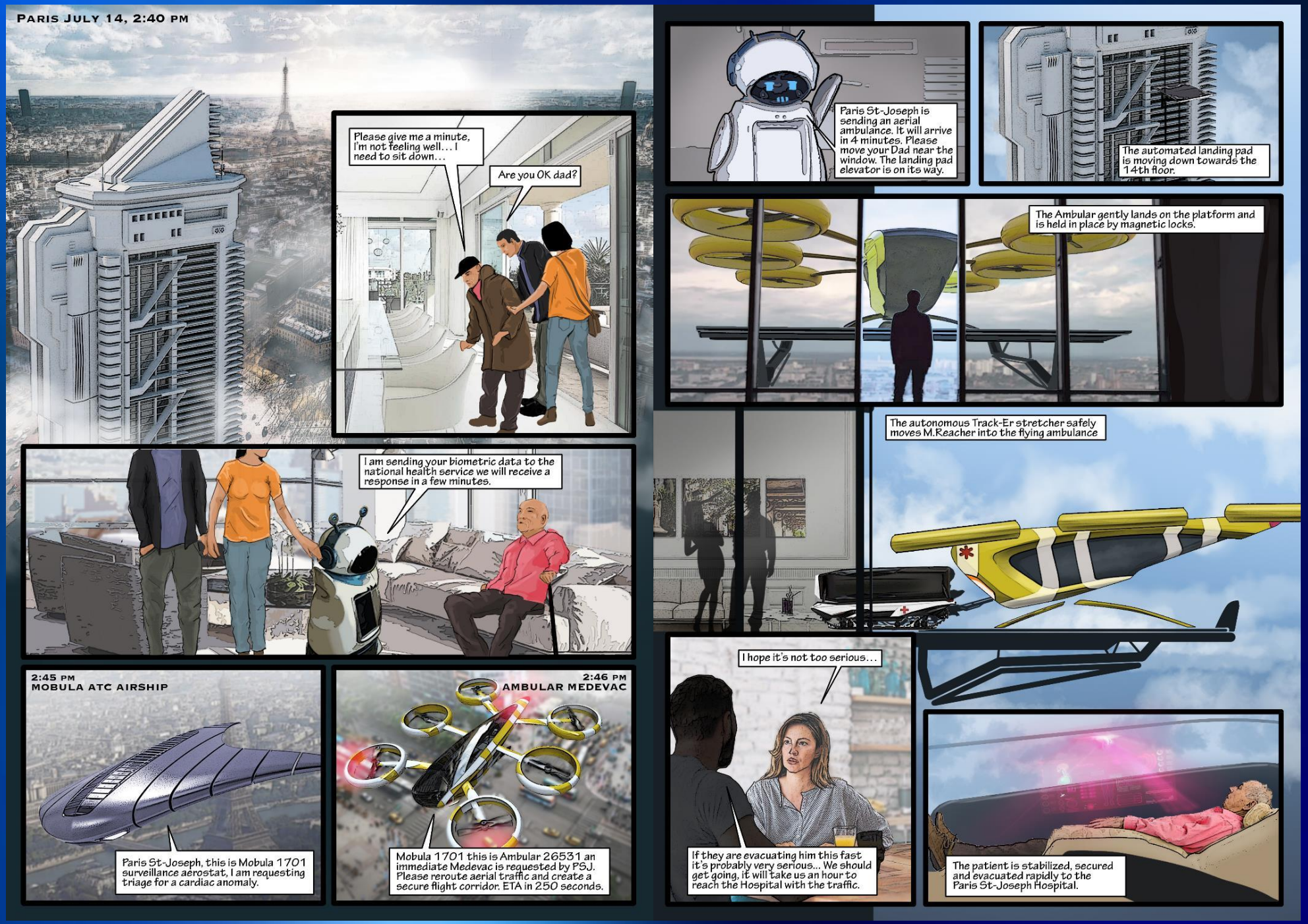
PARIS JULY 14, 2:40 PM
Please give me a minute, I'm not feeling well… I need to sit down…
Are you OK dad?
I am sending your biometric data to the national health service we will receive a response in a few minutes.
2:45 PM
MOBULA ATC AIRSHIP
Paris St-Joseph, this is Mobula 1701 surveillance aerostat, I am requesting triage for a cardiac anomaly.
2:46 PM
AMBULAR MEDEVAC
Mobula 1701 this is Ambular 26531 an immediate Medevac is requested by PSJ. Please reroute aerial traffic and create a secure flight corridor. ETA in 250 seconds.
Paris St-Joseph is sending an aerial ambulance. It will arrive in 4 minutes. Please move your Dad near the window. The landing pad elevator is on its way.
The automated landing pad is moving down towards the 14th floor.
The Ambular gently lands on the platform and is held in place by magnetic locks.
The autonomous Track-Er stretcher safely moves M.Reacher into the flying ambulance
I hope it's not too serious…
If they are evacuating him this fast it's probably very serious… We should get going, it will take us an hour to reach the Hospital with the traffic.
The patient is stabilized, secured and evacuated rapidly to the Paris St-Joseph Hospital.

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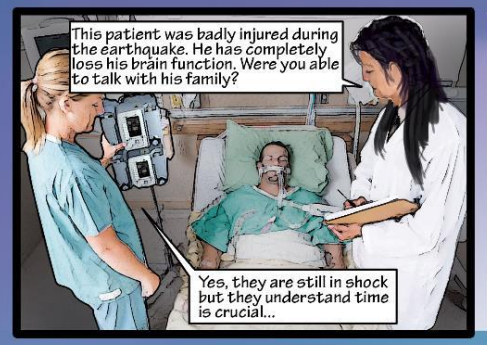

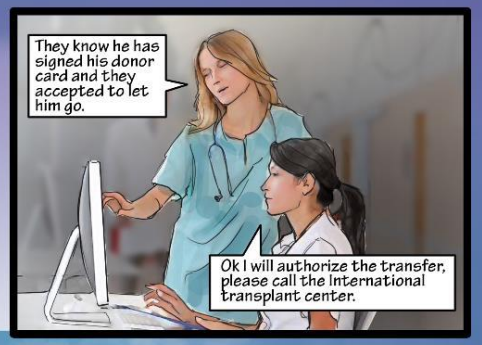

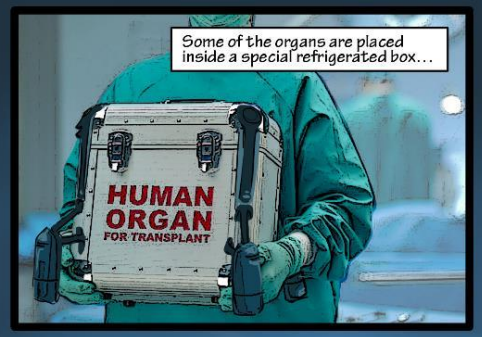

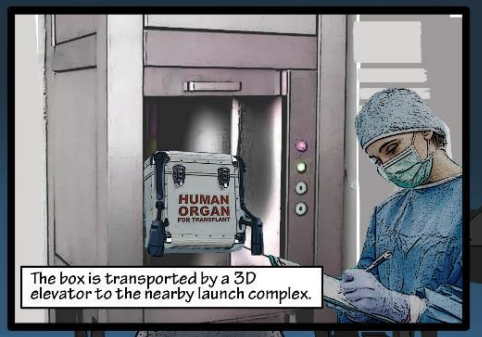

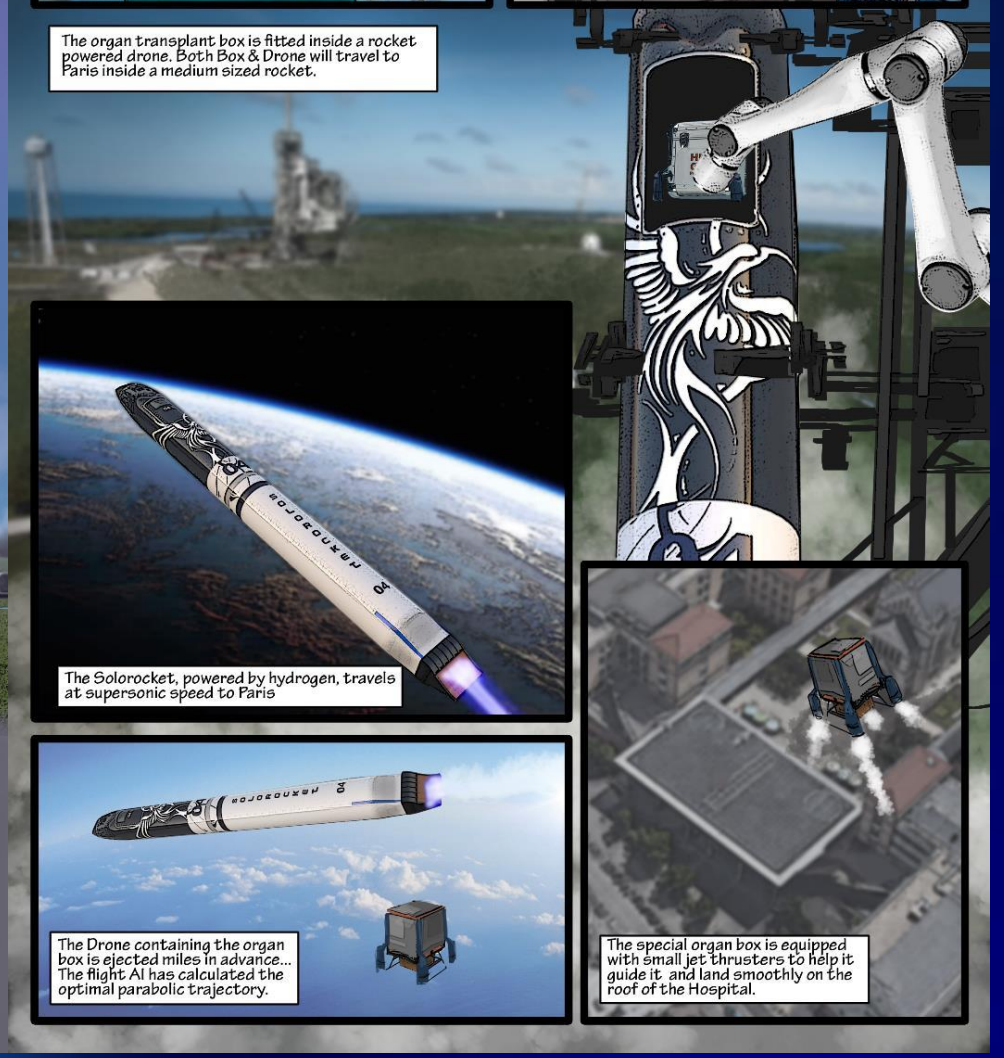


The Drone fires its small rockets to slow down and guide itself to land directly on the roof of the hospital.
The organ and the patient are being prepped for the transplant.
After several hours, the operation is completed with success.
The next day, relatives arrive at the Hospital. Joe's brother flies in on his Jetsol hoverbike...
At 9 am M. Reacher awakes with a new heart less than 24h after his stroke.
3 DAYS LATER, AT THE WORLD TRANSPLANT COORDINATION CENTER...
...so despite the huge tragedy we encountered were able to prolong the life of 26 people around the world this week...
12654
medical cases resolved
456 new donors found
Medical Response
98%
The national medevac pilot program is a clear success along with the international live donor database. We have received the board approval for phase II of the program. Good Job everyone!

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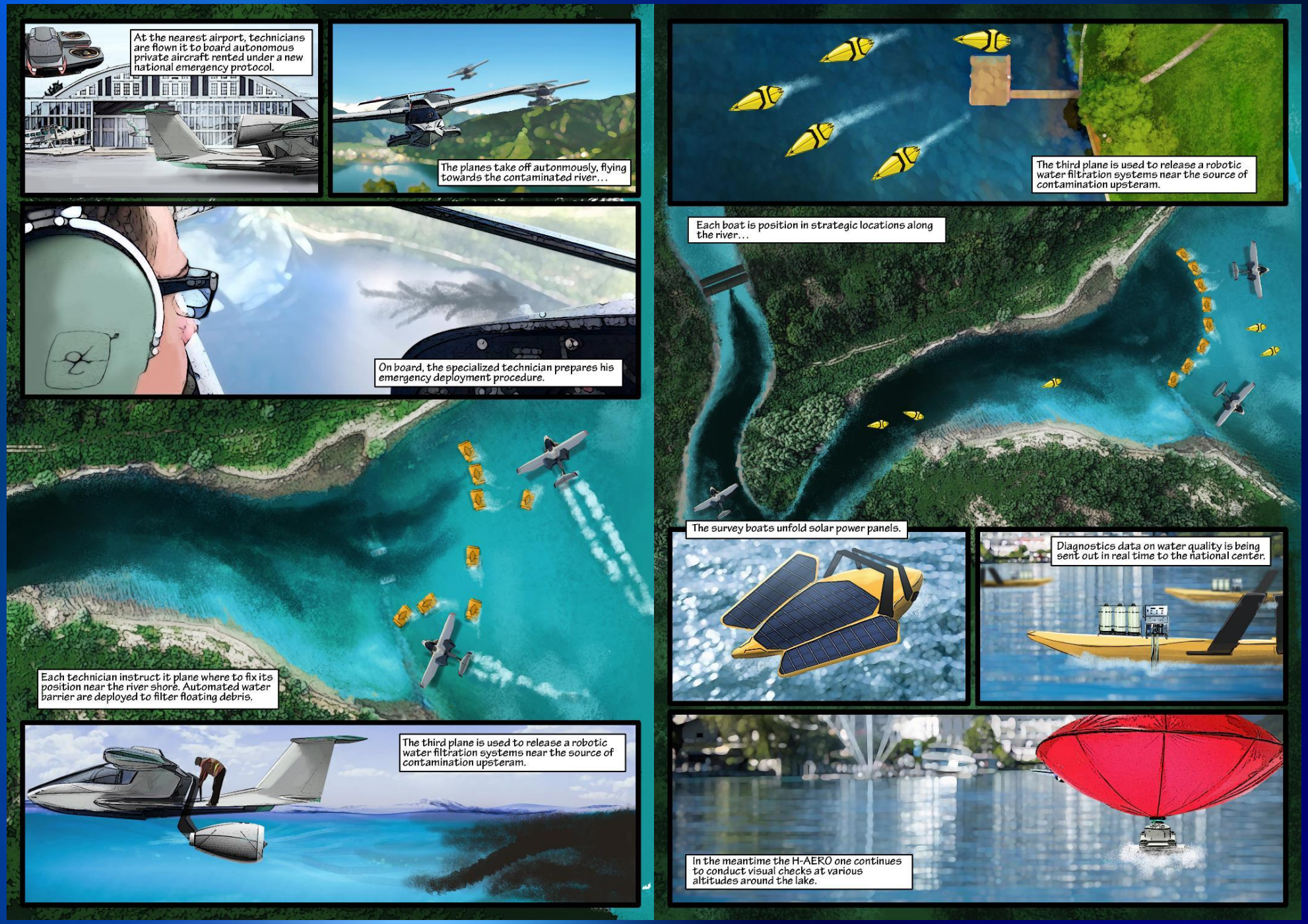
At the nearest airport, technicians are flown it to board autonomous private aircraft rented under a new national emergency protocol.
The planes take off autonmously, flying towards the contaminated river…
On board, the specialized technician prepares his emergency deployment procedure.
Each technician instruct it plane where to fix its position near the river shore. Automated water barrier are deployed to filter floating debris.
The third plane is used to release a robotic water filtration systems near the source of contamination upsteram.
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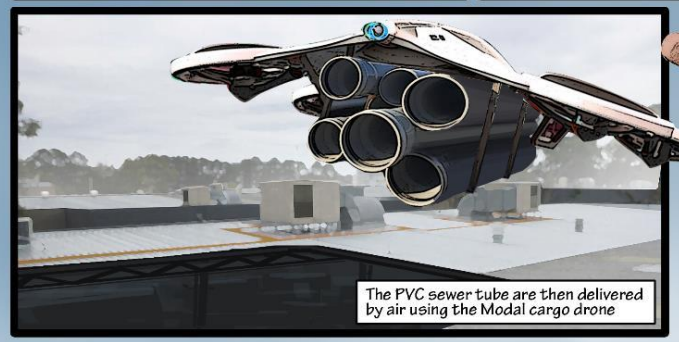
Each boat is position in strategic locations along the river…
The survey boats unfold solar power panels.
Diagnostics data on water quality is being sent out in real time to the national center.
In the meantime the H-AERO one continues to conduct visual checks at various altitudes around the lake.


Another H-AERO one is already upstream and broadcasting images of the broken pipe to the national emergency center.

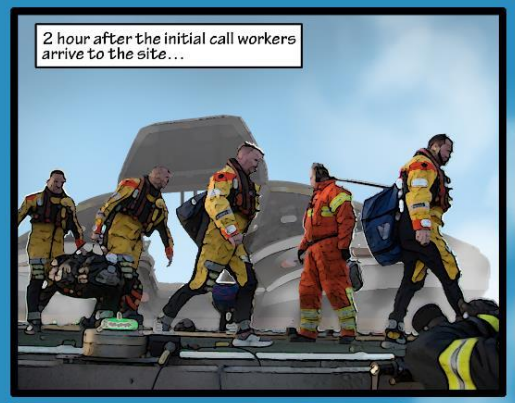

The appropriate equipement is requested in priority.


At the supplier the parts are prepped to be delivered by air

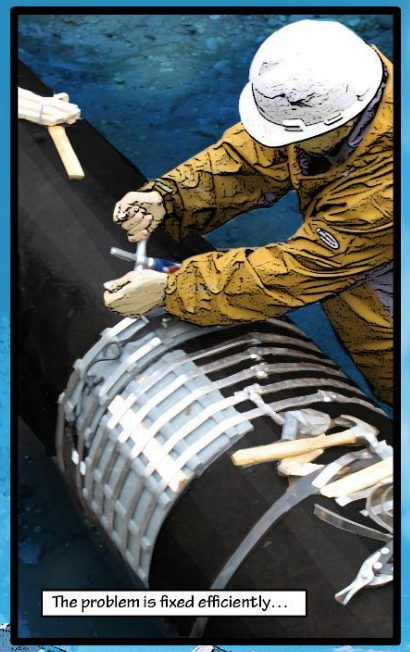

The PVC sewer tube are then delivered by air using the Modal cargo drone


TEXT
SENT


Trained workers are alerted by SMS and they are picked up ariund the region by Dekatone air taxi and transported directly on site.


2 hour after the initial call workers arrive to the site…


The replacement parts are delivered almost simultaneously.


The problem is fixed efficiently…


Less than 8 hours after the incident, the levels are back to normal and the water quality is safe again to enjoy the Wemotaci reservoir!

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Montreal, Sept 21 2035, 4 pm
Hi honey! We're boarding the REM & heading to the airport. I'll call you as soon as we arrive in Perth. Love you, Bye!
RSMR-653
Check it out dad! My virtual friend Aeon just invited me to her party !
That's cool Leia! Make sure you keep your personnal data private. You don't know this AI well enough…


DEPARTURES | AEROCHK SCREENING
What does this escalator do dad?
It scans our passport & luggage. It also completes registration, security and immigration all at once!
What was this tunnel for ?
it's a body scanner Luke, it uses terahertz, millimeter wave and backscatter and other sensors to identify biometric data and monitor our health.
And we're now good to go!


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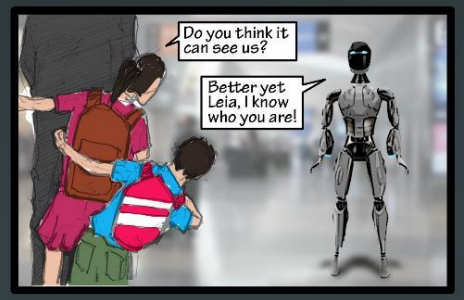
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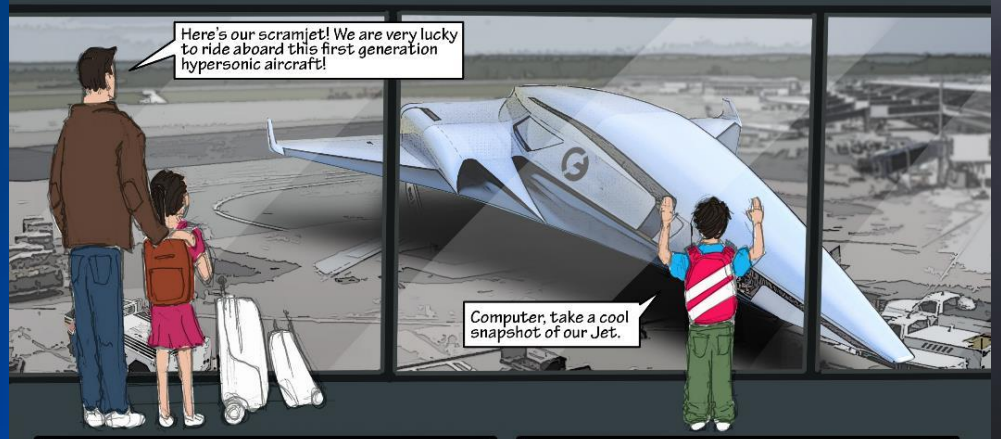
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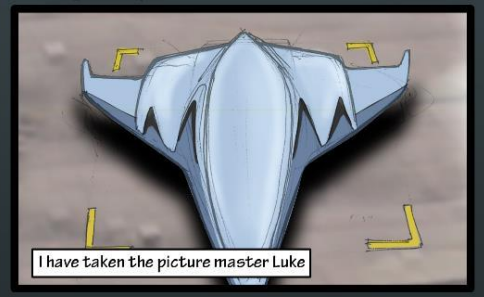
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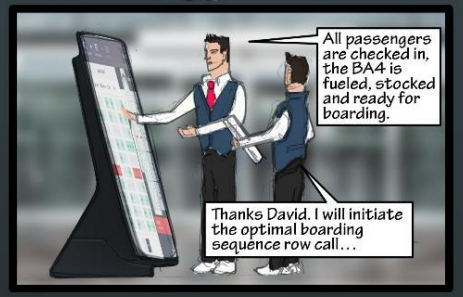
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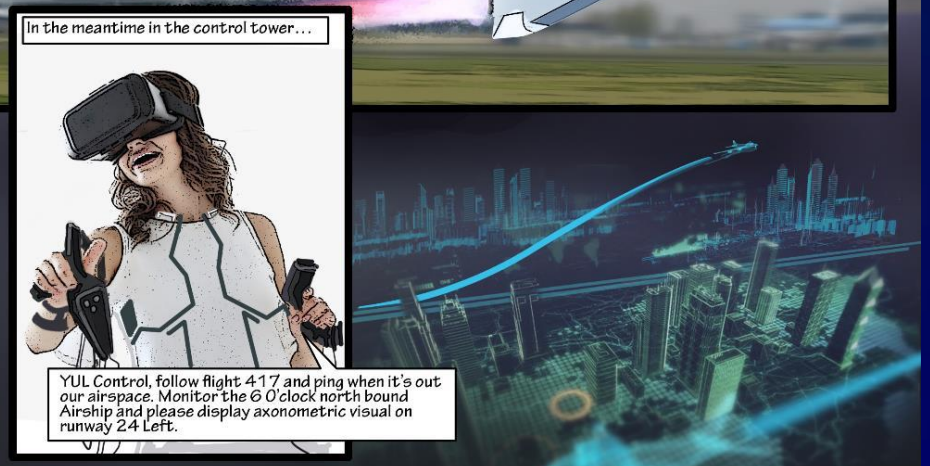
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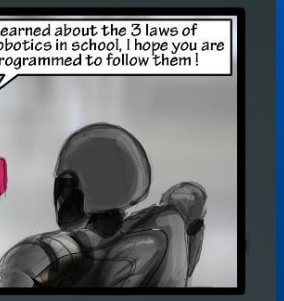
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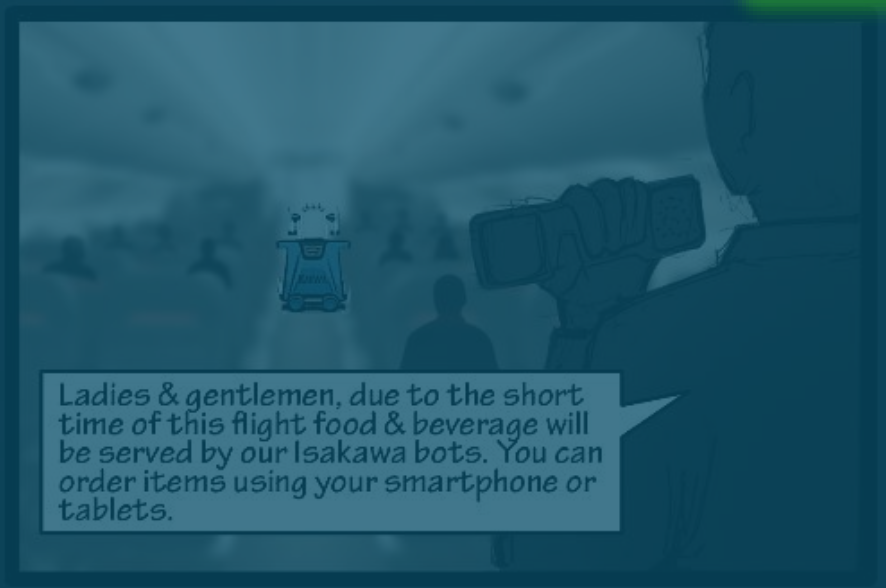
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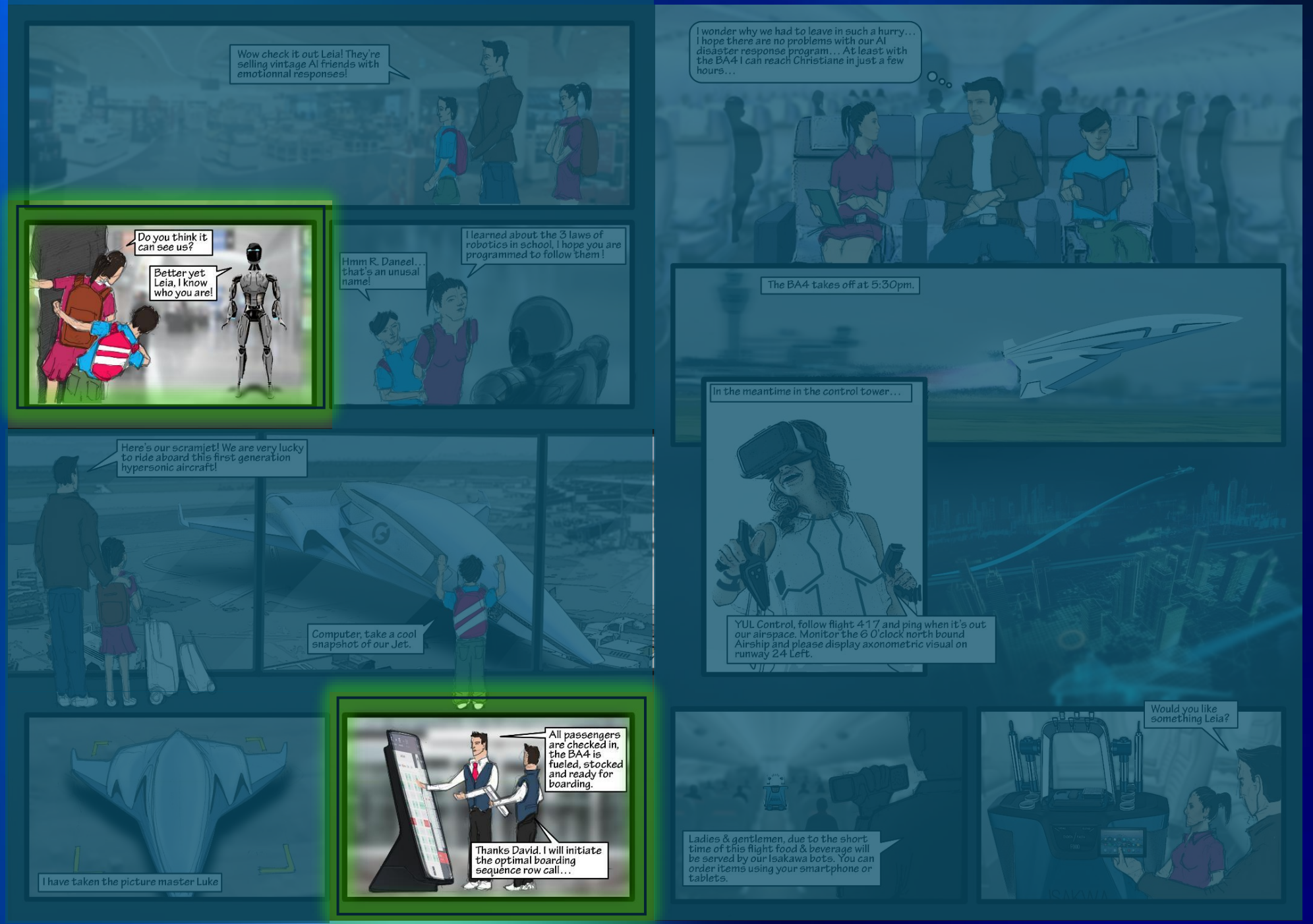
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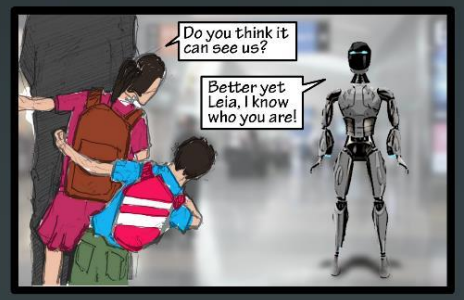
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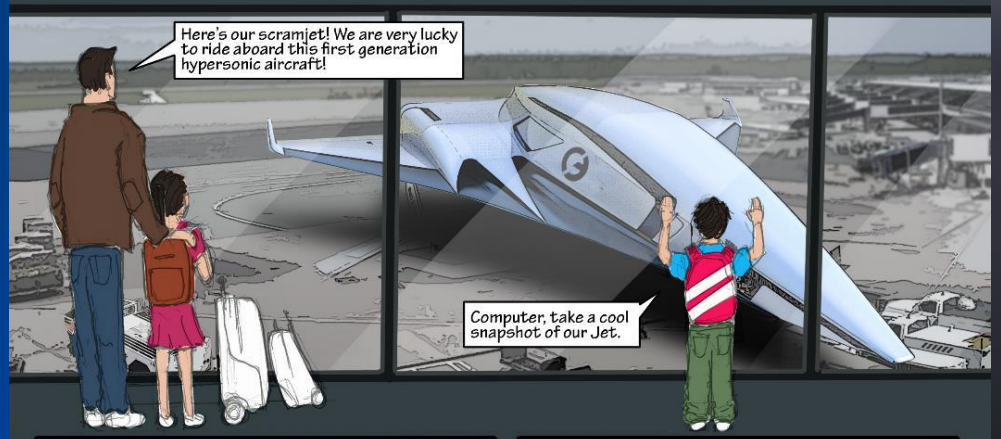
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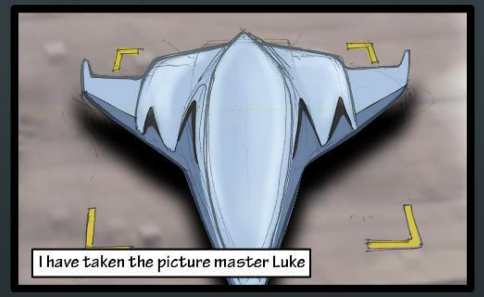
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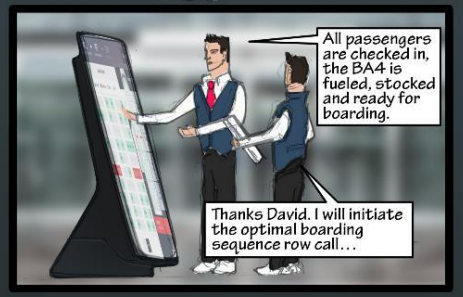
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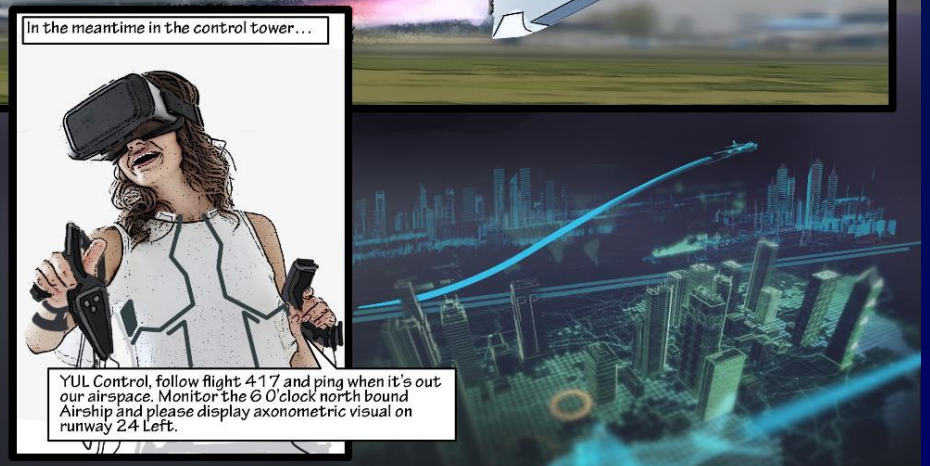
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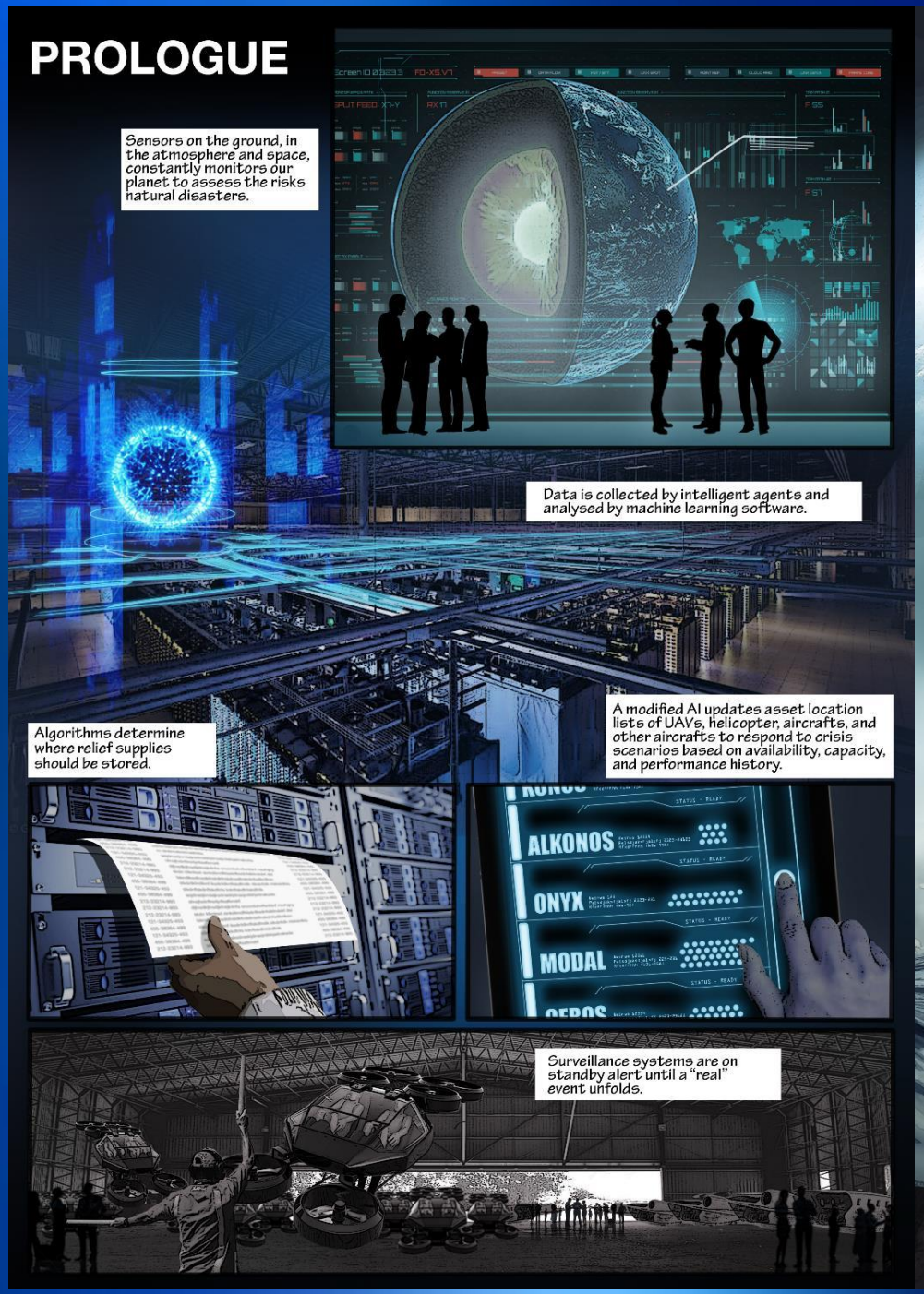

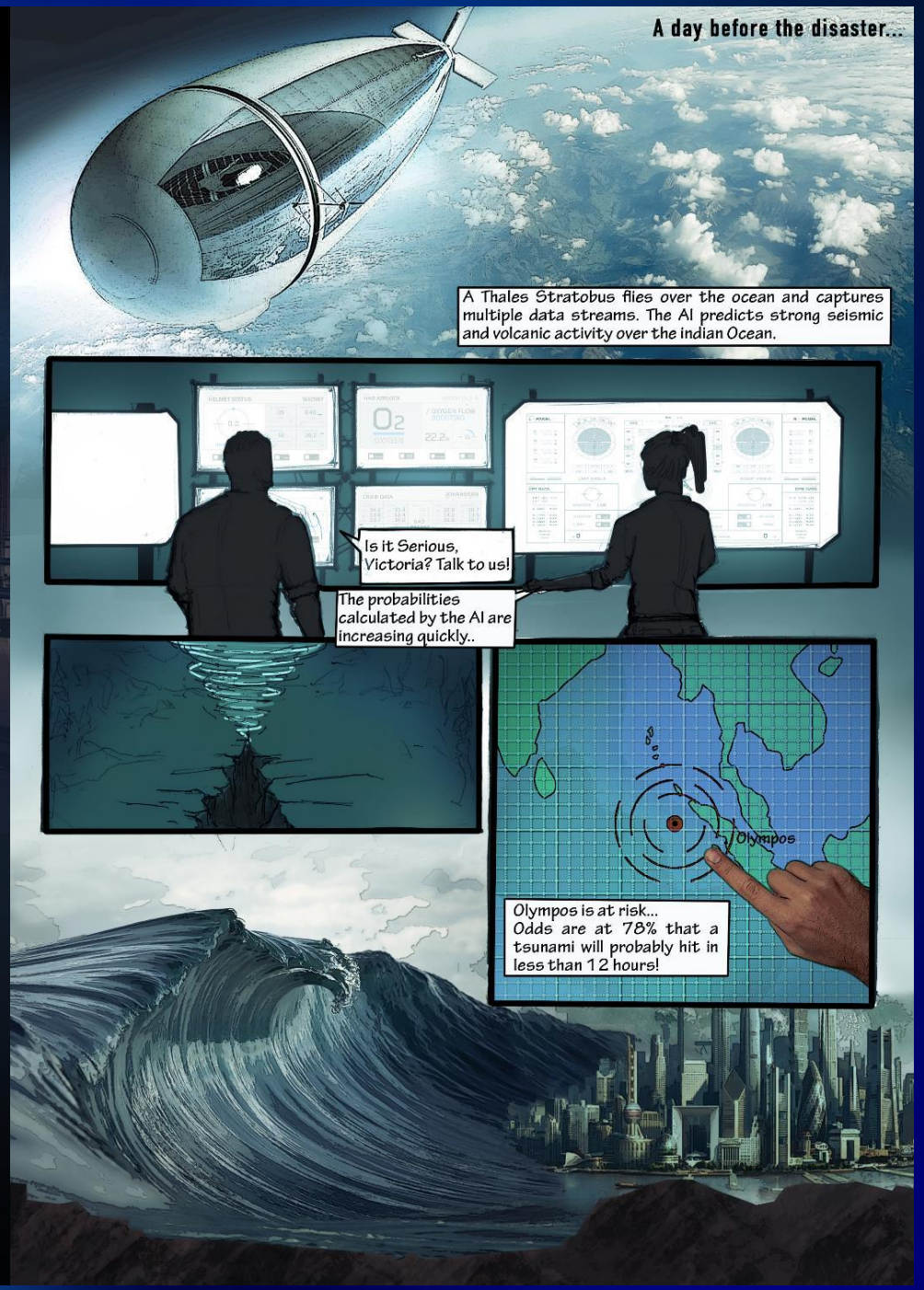

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PROLOGUE

Sensors on the ground, in the atmosphere and space, constantly monitors our planet to assess the risks natural disasters.

Data is collected by intelligent agents and analysed by machine learning software.

A modified AI updates asset location lists of UAVs, helicopter aircrafts, and

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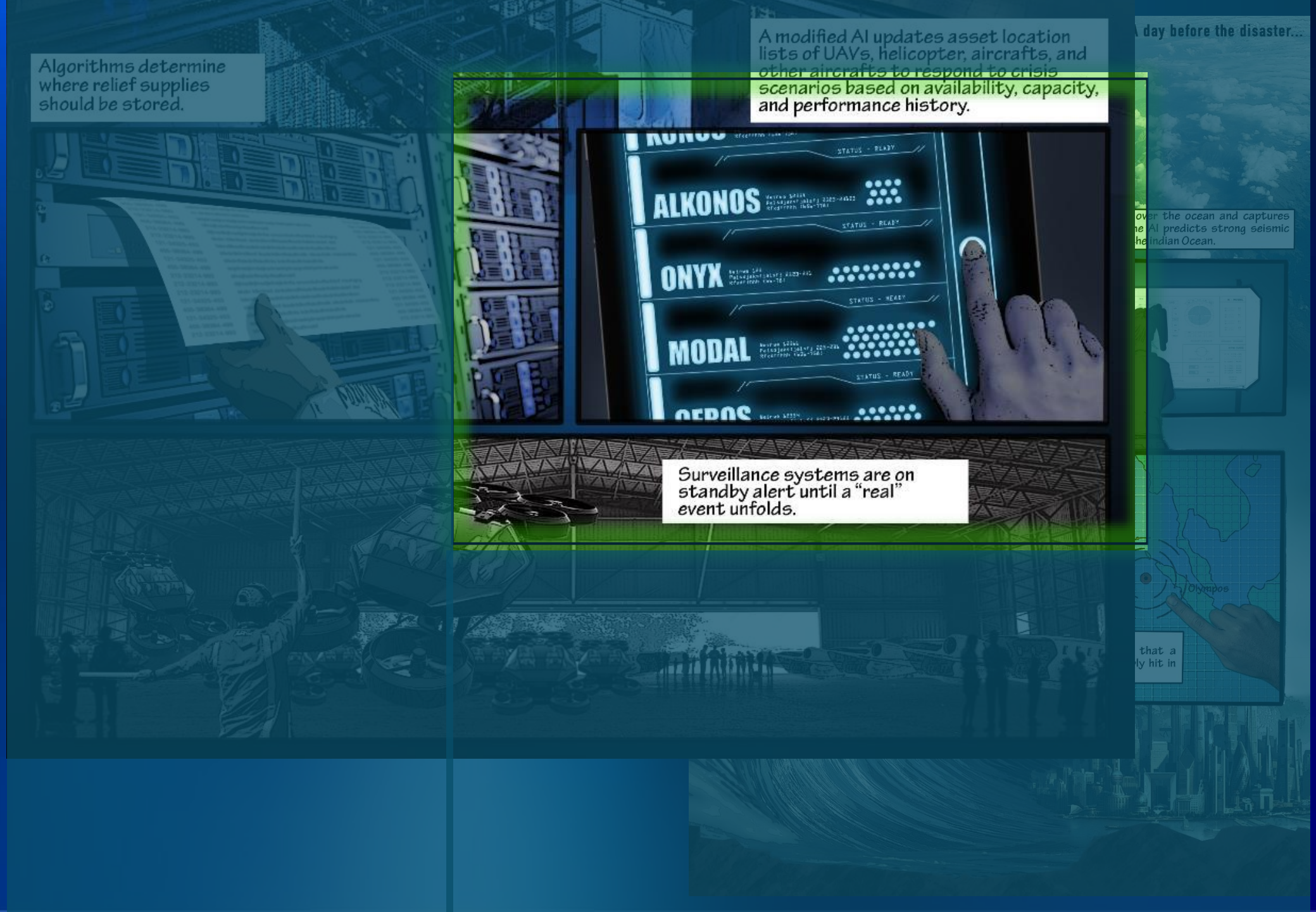
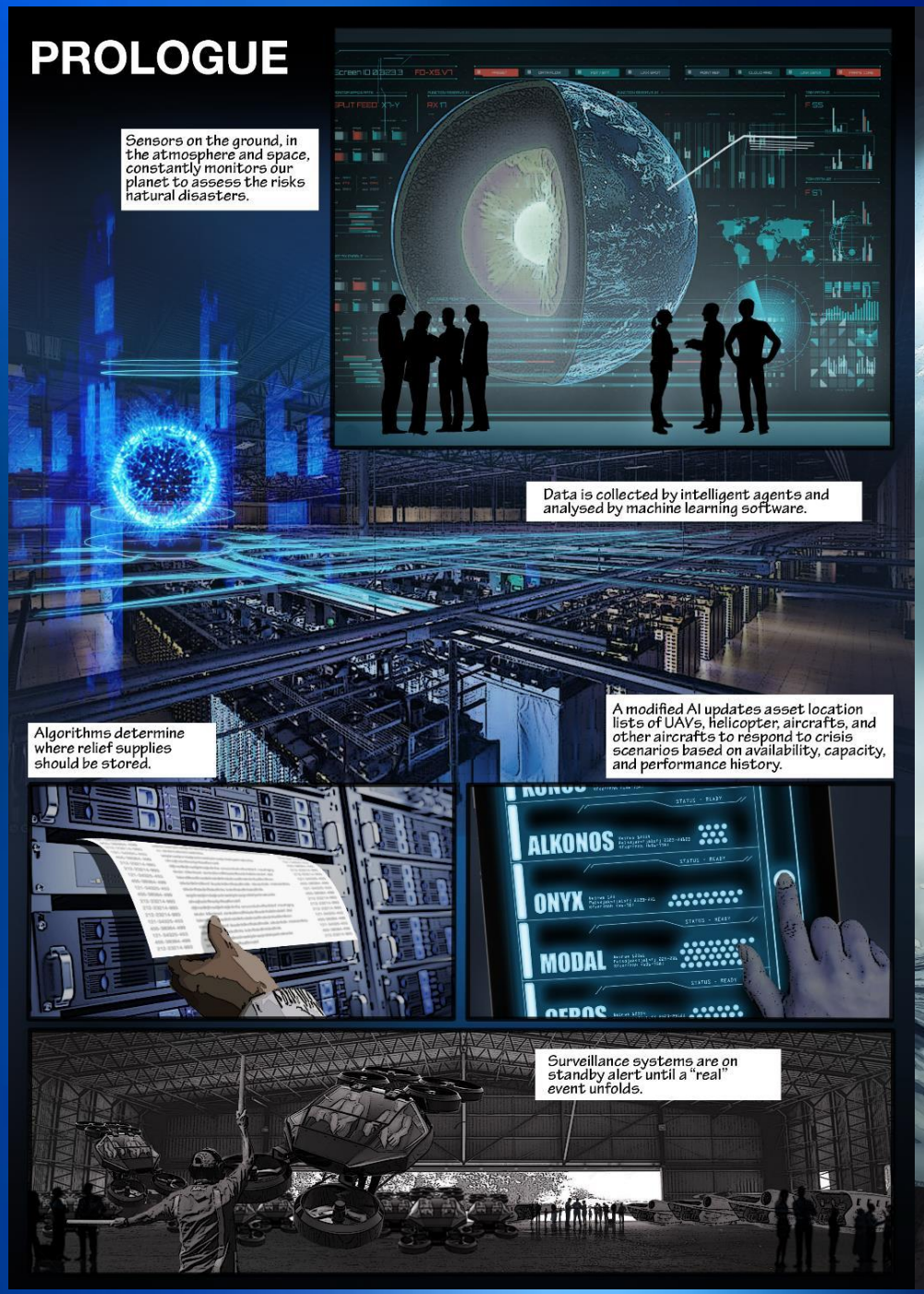
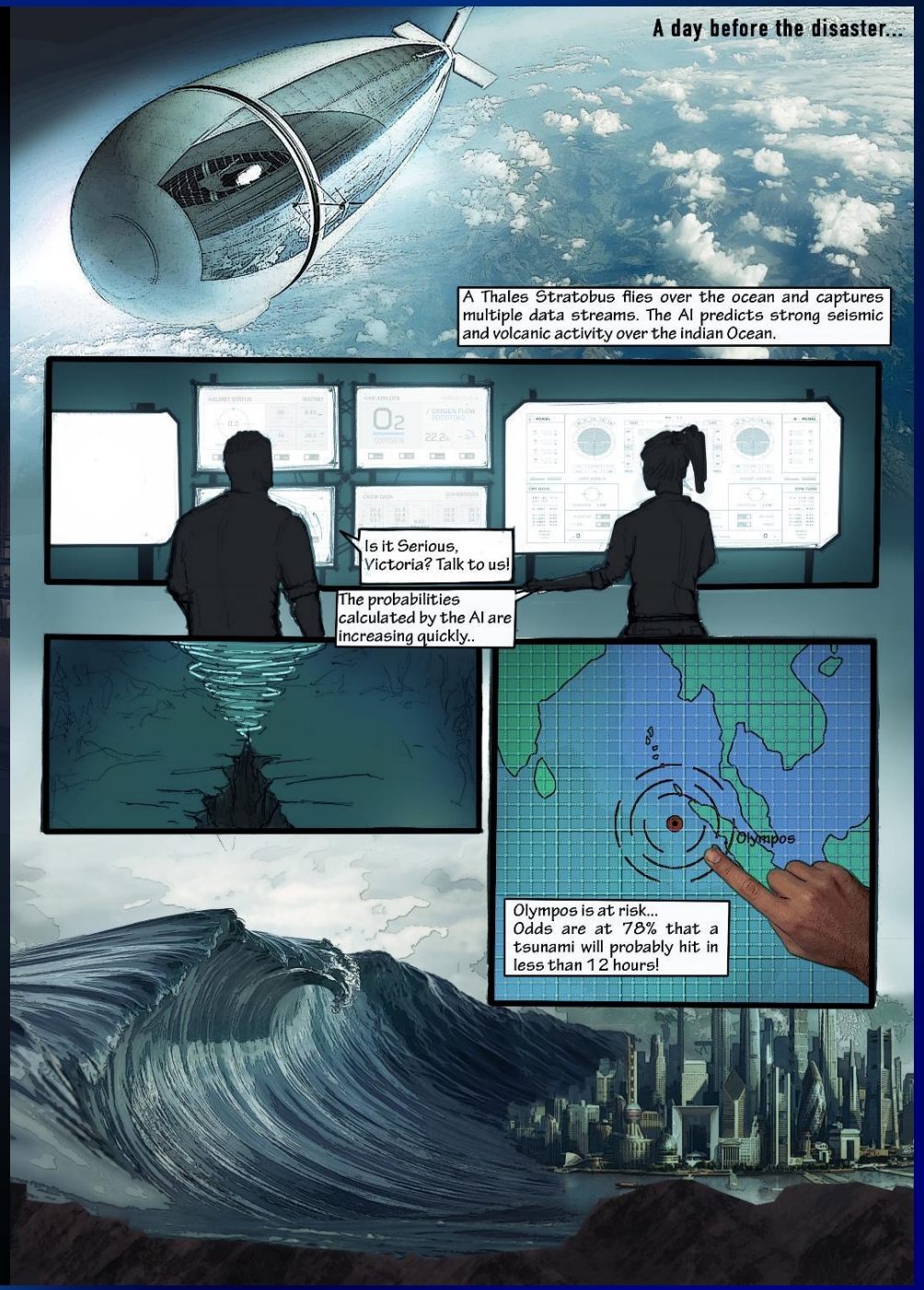

Algorithms determine where relief supplies should be stored.
A modified AI updates asset location lists of UAVs, helicopter, aircrafts, and other aircrafts to respond to crisis scenarios based on availability, capacity, and performance history.
ALKONOS
ONYX
MODAL
STATUS - READY
Surveillance systems are on standby alert until a "real" event unfolds.
day before the disaster...
over the ocean and captures
AI predicts strong seismic
Indian Ocean.
Olympos
that a
hit in

PROLOGUE





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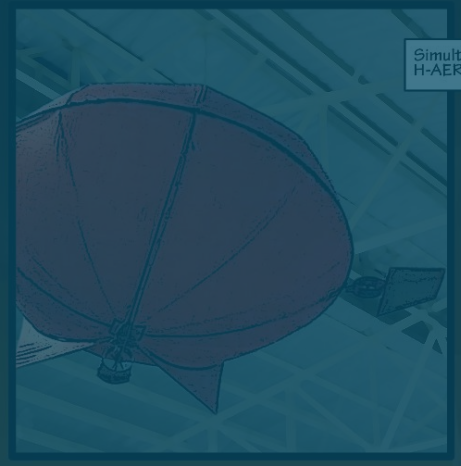
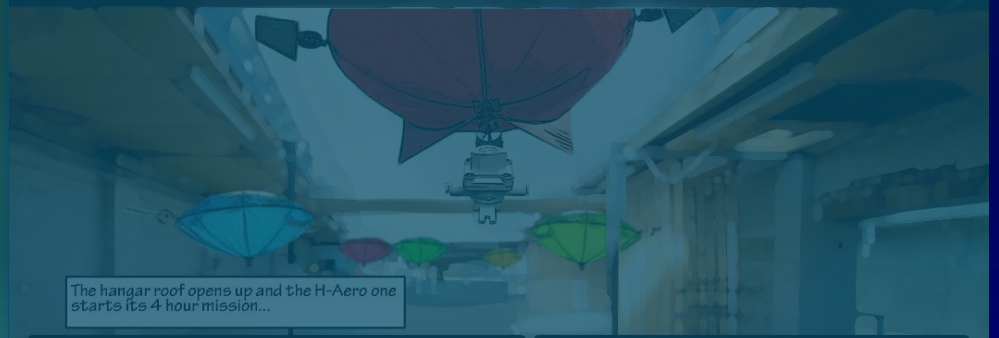
ks & rivers, water
nonitoring air and
.

denly, sensor #4
ed on the Tomifobia
activates its drone
end a water sample
nalysis.

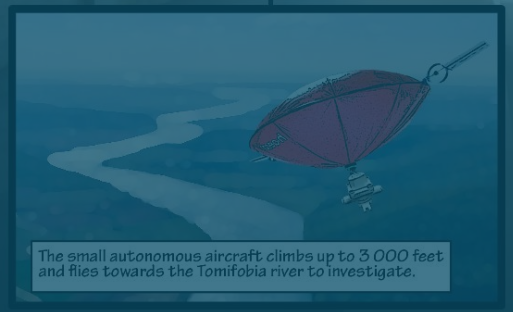


Simultaneously, a message is sent to an H-AERO One balloon...

A visual water quality sensor is then attached to the Drone



The hangar roof opens up and the H-Aero one starts its 4 hour mission...



The small autonomous aircraft climbs up to 3 000 feet and flies towards the Tomifobia river to investigate.


The hangar roof opens up and the H-Aero one starts its 4 hour mission...
The small autonomous aircraft climbs up to 3 000 feet and flies towards the Tomifobia river to investigate.
SOURCE IDENTIFIED

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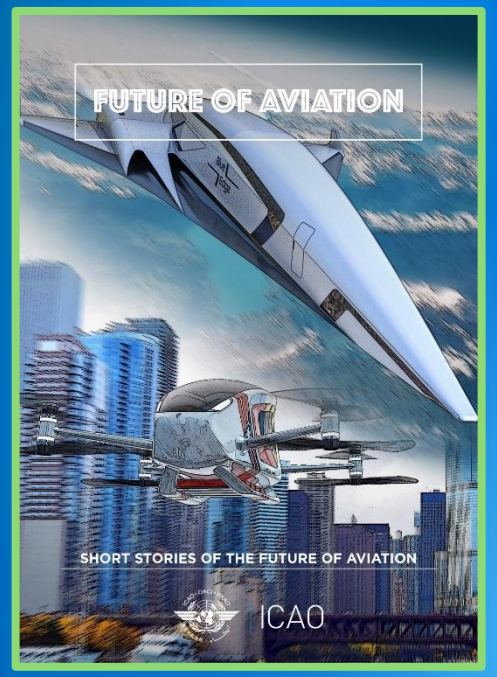

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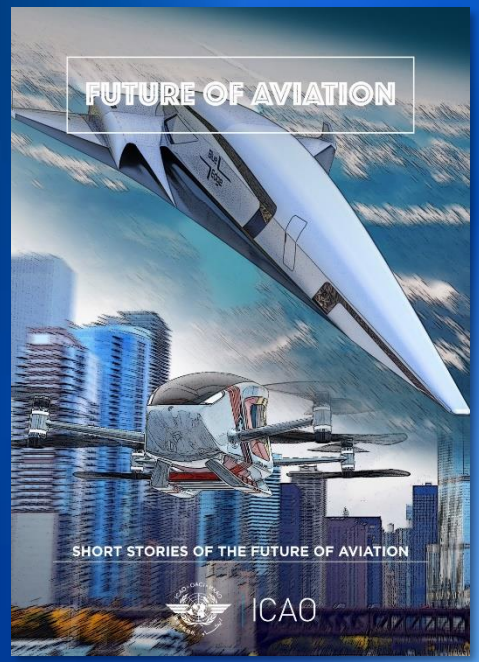

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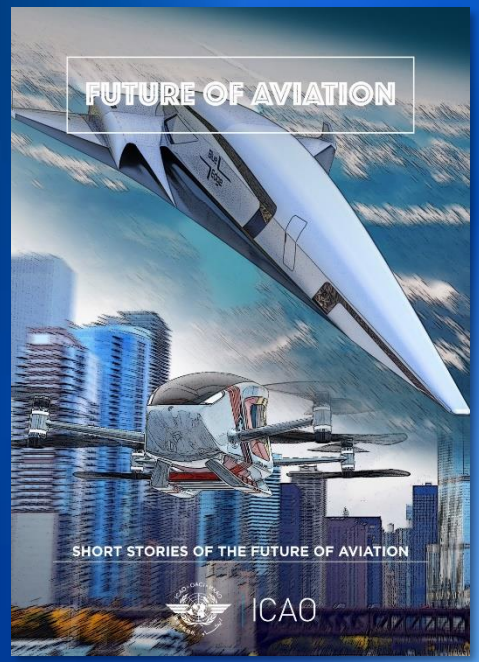

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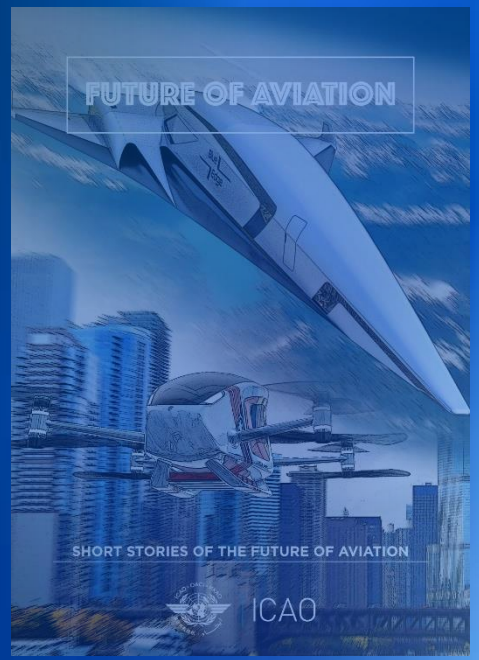

ICAO iSTARS 4.0

Integrated Safety Trend Analysis and Reporting System

A platform to help you make informed decisions

7686	142
Users	Datasets

28	4
Applications	Regional Portals

Welcome to iSTARS

The Integrated Safety Trend Analysis and Reporting System (**iSTARS**) is a web-based **Modern Analytical Platform** providing a quick and convenient interface to a collection of safety and efficiency datasets and web applications to make safety, efficiency, and risk analyses.

ATALOGUE

INNOVATION

ABOUT iSTARS

iSTARS 4.0

Integrated Safety Trend Ar

A platform to help y

ICAO Innovation Hub

Connecting global aviation stakeholders to foster innovation and collaboration for a safer, more efficient, and sustainable future of flight

ICAO Innovation Policy

EN FR RU ES ZH AR

This policy is founded on Assembly Resolution A40-27: Innovation in aviation, which builds on the Chicago Convention to address the evolving nature of aviation innovations. It draws from the United Nations System Staff College's independent assessment and subsequent Council action to create a framework that supports all Member States in benefiting from aviation innovation.

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Industry collaboration and knowledge sharing

Inclusive Innovation
Accessibility support for all member states

Instruments and Tools
Regulatory frameworks and standardization

Internal Innovation Culture
Internal transformation and empowerment

Council Innovation Policy Monitoring
KPIs and continuous improvement

Inclusive Innovation and Accessibility Support

- ✓ Conduct regular horizon scanning
- ✓ Analysis of accessibility of innovation by Member States
- ✓ Innovation Fair
- ✓ Deploy the various forums and tools to enable collaboration
- ✓ Support Member States in promoting, accessing, and adopting innovations
  - ✓ Training

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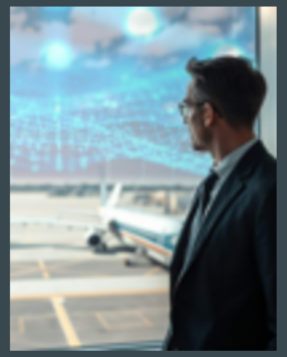
ICAO TRAINING



Innovation in Aviation - Fundamentals (IIAF EN): Online

ITP/MGT/IIAF/076EN

ICAO Course

Aviation Management » Management -General

Goal

The Innovation in Aviation - Fundamentals online course is designed to enhance individual skills and stimulate further thinking within organizations about innovation and integrating advanced solutions to support the civil aviation system.

Course Description

Developed by:

ICAO

International Civil Aviation Organization

- ✓ Conduct regular horizon scanning
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ICAO Standardization Roadmap Guidelines

Understanding the process for evaluating and tracking innovative aviation technologies

SUBMIT YOUR INNOVATION

Overview Gate Process Process Flow Entities That Can Submit Innovations FAQs

Roadmap Overview

The ICAO Standardization Roadmap is a rolling timeline that reflects ICAO's assessment of globally suitable innovative technologies and processes at varying levels of maturity in support of its mandate. It serves as a key forward-planning tool by collecting insights on emerging technologies and operational developments. The Roadmap provides a dynamic view of anticipated innovation timelines, highlighting both the readiness and expected entry into service of new solutions. It also helps identify where and when new provisions updates may be required to enable the safe and globally harmonized implementation of these innovations. For more information check the ICAO Standardization Roadmap Concept Document

Purpose

The Standardization Roadmap collects information on aviation innovations to

Scope

Innovative technologies and processes at different levels of maturity that contribute to

Key Principles

The Roadmap is guided by principles of transparency, independence, neutrality,

	Indicated by Submitting Entity	Reviewed by ICAO			
Item	**TRL**	**EIS**	**Status**	**Comment**	**Ongoing Work**
Distributed Fan Aircraft	7	2036	Before Gate 1	due to the insufficient information to validate the maturity	N/A
Flex-fuel	4	2040	Before Gate 1	due to insufficient maturity	N/A
Hybrid Aircraft	7	2029	Passed Gate 1	submission merits inclusion into the Roadmap for monitoring purposes	ADOP.028.01 - Aerodrome compatibility of aircraft powered by alternative energy sources AIRP.017.01 - Electric and Hybrid Propulsion
Hydrogen Aircraft	7/7/5	2035	Passed Gate 1	submission merits inclusion into the Roadmap for monitoring purposes	ADOP.028.01 - Aerodrome compatibility of aircraft powered by alternative energy sources
Hydrogen Fuel Cell APU replacement	6	2036	Before Gate 1	due to the incompleteness of the information available	N/A
Pressure Gain Engine	6	2038	Before Gate 1	due to the incompleteness of the information available	N/A
Small Electric Aircraft	9/7/7	2027	Passed Gate 1	submission merits inclusion into the Roadmap for monitoring purposes	ADOP.028.01 - Aerodrome compatibility of aircraft powered by alternative energy sources AIRP.017.01 - Electric and Hybrid

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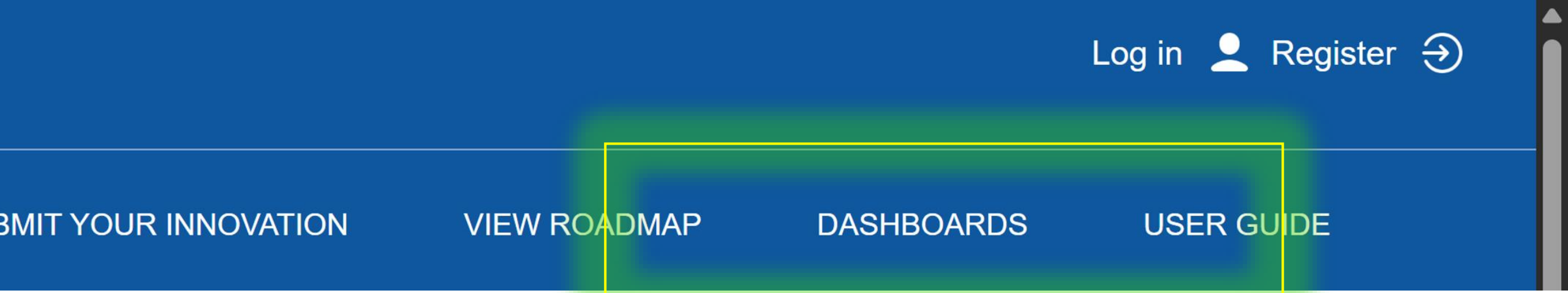

o Convention to address the evolving nature of aviation
ent Council action to create a framework that supports all
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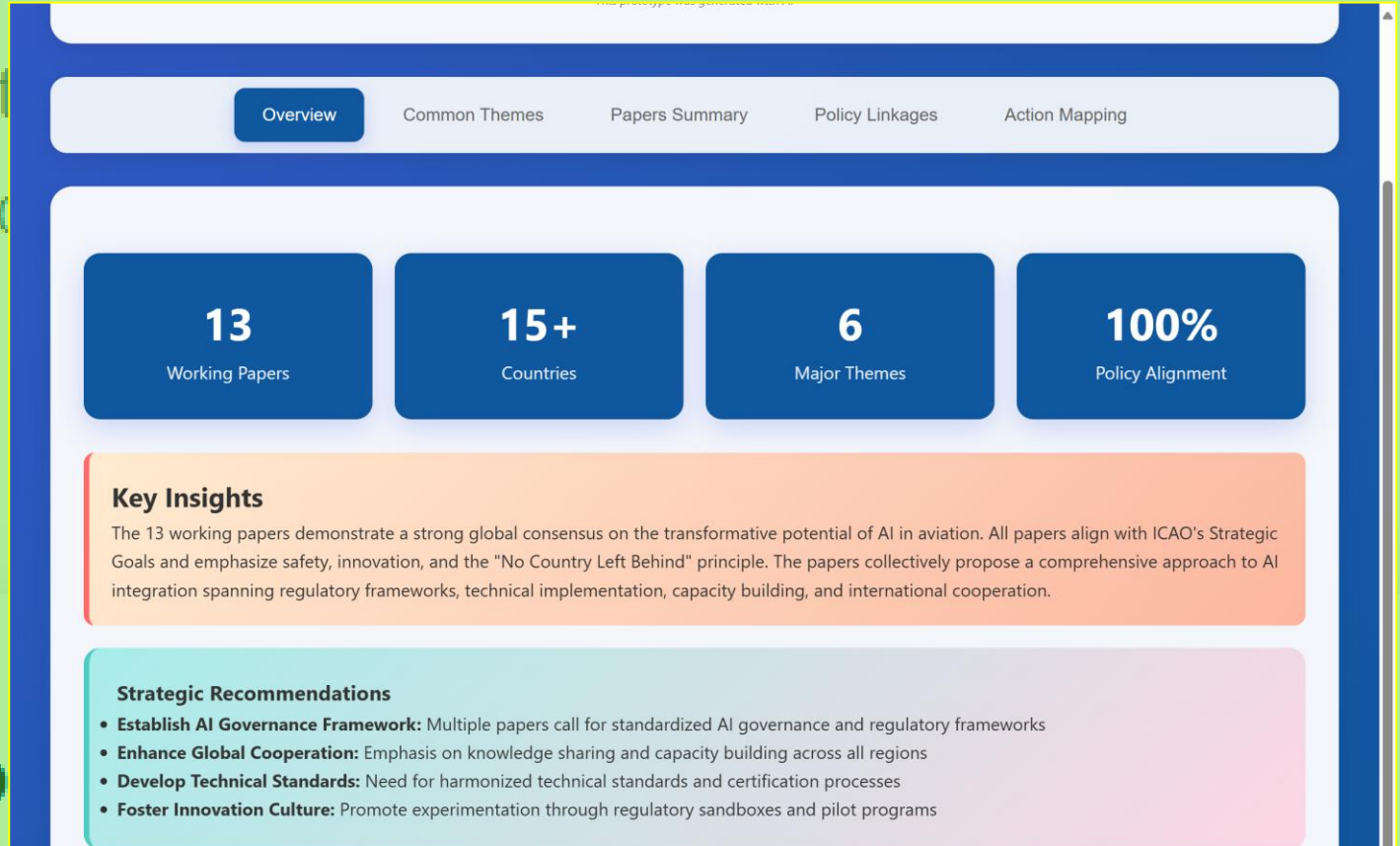
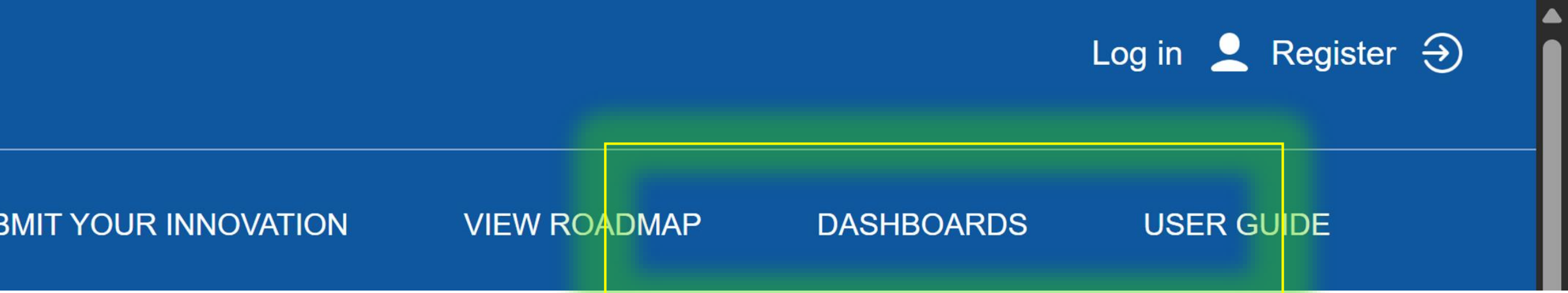
Log in Register

BMIT YOUR INNOVATION VIEW ROADMAP DASHBOARDS USER GUIDE





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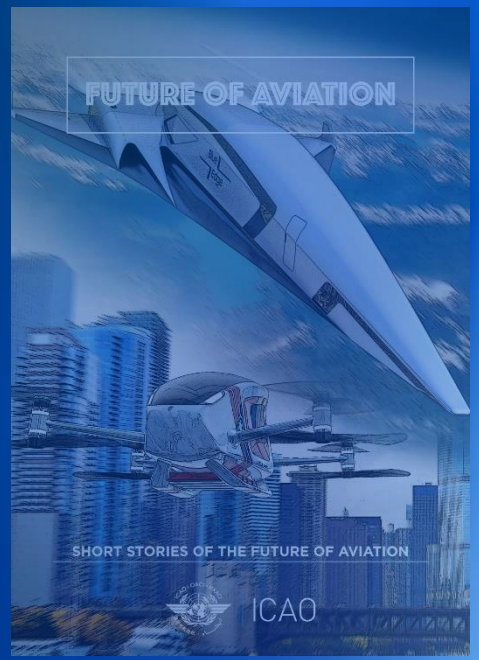

Thank you