

# Dreamarks

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MAGAZINE



## Nautical Mega Structures Vessels

Floating Production Storage & Offloading (FPSO) Vessels manufactured by Samsung Heavy Industries (SHIN). EGINA is the largest FPSO vessel with a production capacity of 208,000 barrels per day. It was first built in 2013. It has been processing oil and gas and various other oil and gas derivatives from the EGINA & AKPO Oil Field in Nigeria since 2003. In the maritime industry, FPSO vessels are floating manufacturing units capable of mass production and maximizing travel time from the source material location to its destination.



### Microsoft Dynamics365 Business in Futuristic Frontiers

In the New Business Era that is fully integrated and interconnected, it's time to switch to using this new software from Microsoft Business. Dynamics 365.

- Microsoft CRM
  - Sales
  - Field Service
  - Marketing
  - Projects
  - Operations
  - Customer Service
- Microsoft ERP
  - Finance & Operations
  - Commerce
  - Human Resources
  - Supply Chain Management
  - Business Central
- Microsoft Power
  - Power Apps
  - Power Virtual Agents
  - Power Business Intelligence
  - Power Automate

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# Dreamarks Magazine

# 6G

## About Dreamarks

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Bayangkan sebuah dunia dimana beragam teknologi telah terhubung dengan kecepatan tinggi hingga beragam resiko kesehatan dan kecelakaan yang biasa terjadi tanpa bisa dipantau dan dicegah, kini dimungkinkan untuk diselamatkan lebih awal bahkan dihindari dari sebelumnya. Dengan 6G tech, semua bisa diwujudkan dalam waktu dekat.

## Viewing The Marvelous Future Ahead

We present to you this 3rd Edition of Dreamarks Magazine with various Latest Innovations. From the Macro Engineering Field there's numerous Nautical Mega Structures built for Ensuring Global Supply Chain Stabilities Transportations and Storage Systems and even Offshore Productions Manufacturing Process Solutions given by the Samsung Heavy Industries for Providing The International Maritime Vessels Demands.

Ensuring Global Health Capabilities and Environment Securities, Various Artificial Intelligence Technology are Restructuring Our Life in Various Dimensions. All these new AI Developments are now at hand and are on its way in Enhancing Human Limited Capacities in order to Enlarge Possibilities in the field of Data Analyzing, Storing and Processing, Predicting, Detecting and Monitoring Dangerous Threats and Avoiding Criminalistic Probabilities with the usage of future 6G Technologies.

Supporting The World Food & Livestock Capabilities, Africa Great Green Wall has been Developed Since 1998 and in 2020 has Widely Sprung from The Dry Deserted Land of Ethiopias into 15 million hectares of Vast Green Lands, followed by 5 million hectares of Vast Green Lands in Nigeria and 11,4 million trees planted in Senegal, 509.000 Hectares Vast Green Lands in Erithria and Other Middle African Countries Enable Global Food Supply Stabilities.

Intended as Costumer Relations Managements & Risk Averse Management Systems ERP (Enterprise Resource Planning Software), The Microsoft Dinamics 365 are developed from various proven applications such as Navision, Power Business Intelligence, Microsoft Azure, Office 365, SalesForce and Axapta Finance Monitoring & Operations Planning Software.

*Gina Al Ilmi*

**Editor-in-Chief**

A map of the African continent is shown in the background. A large green rectangular box is overlaid on the top right portion of the map, containing white text. Another semi-transparent green box is overlaid on the central part of the map, containing white text. The map shows various African countries, major cities, and geographical features like the Mediterranean Sea and the Red Sea. A line of green trees is drawn across the center of the continent, representing the Great Green Wall project.

**Total distance: 7,775km**  
**Total area: 11,662,500 hectares**

## Background Initiatives of The Africa Great Green Wall

In Africa, low rainfall can persist for years. This is exacerbated by poor agricultural systems, poor livestock management, and soil degradation in the Sahel region, which has nearly turned half of Africa into a semi-desert.

The lack of fertile soil along the 8,000-kilometer stretch of the African continent from east to west, from Senegal on the Atlantic coast to Eritrea on the Red Sea, makes it impossible for farmers to survive.

In 2007, leaders from 11 African countries gathered to initiate the radical idea of planting trees to form a Great Green Wall across the center of Africa.

While seemingly straightforward, the idea of creating a green belt across the center of Africa is challenging due to the dry and rocky terrain. Parts of the Great Green Wall are uninhabited, leaving no one to care for the trees.

Fortunately, thanks to their strong willpower, the people of this poorest region on Earth have overcome numerous obstacles by finding a simple and efficient way to restore their soil: rainwater storage in semicircular ponds measuring 3 meters in diameter.

The trees chosen are acacia and various other native African hardwood species. Acacia trees also break winds due to their sturdy and tall structure. Their sharp, deep roots help reduce soil erosion and retain groundwater moisture, allowing dried-out wells to refill.

The dense foliage of acacia trees also forms a canopy that helps retain moisture, reducing the plants' need for water. Fallen leaves also decompose and enrich the soil.



## History of The Program Africa Great Green Wall



The Africa Great Green Wall project involves 11 countries along the southern border of the Sahara Desert and a number of other global partners, aiming to limit the potential increase in drought in the Sahel Zone.

Led by the African Union, the GGW initiative aims to transform the lives of millions of Africans by creating green spaces and productive arable land across North Africa.

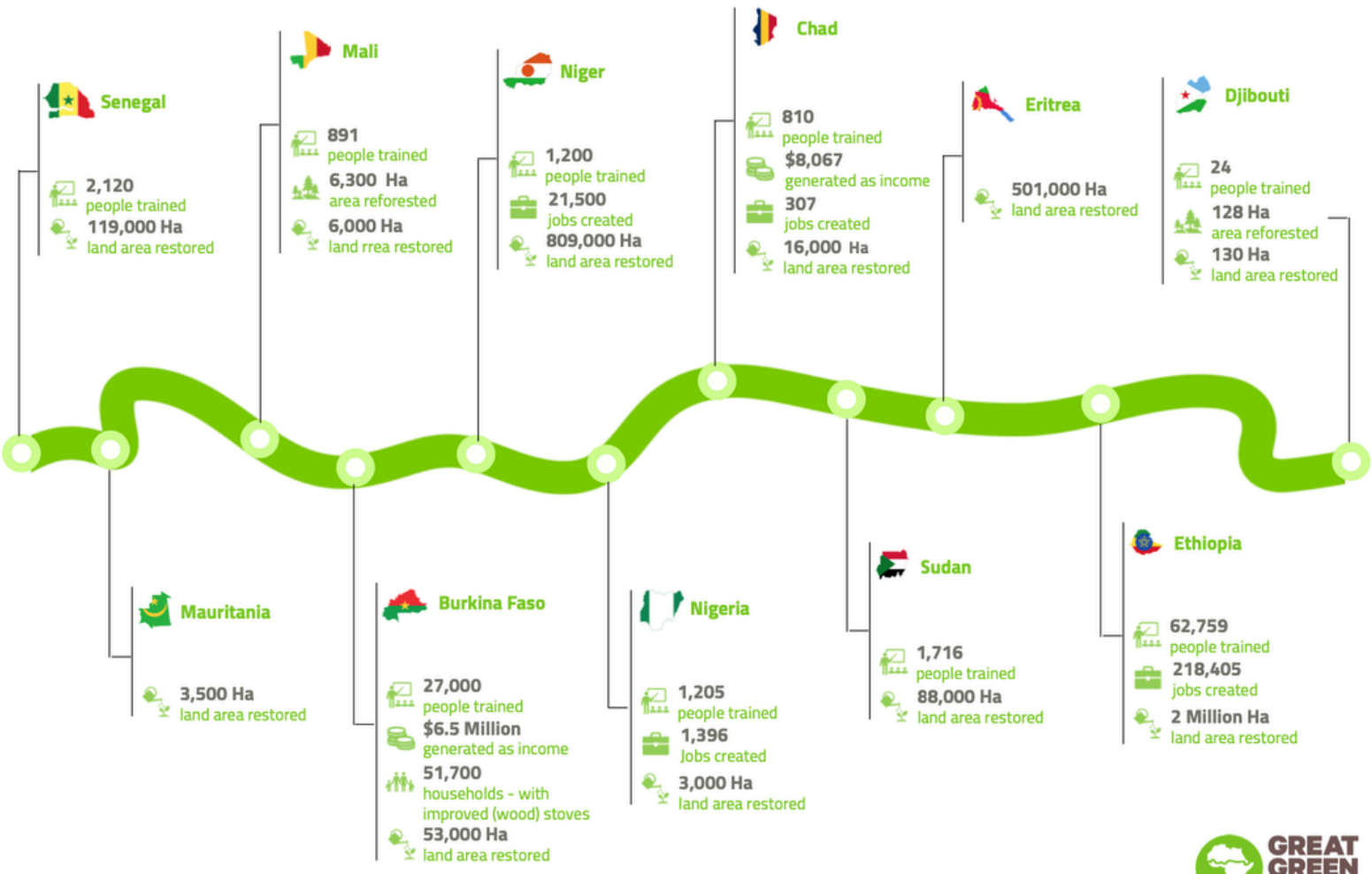


The initial idea for the GGW was to develop a tree-lined belt from the eastern to the western edge of the Sahara Desert. This vision has evolved into an intervention designed to address the challenges faced by people in the Sahel and Sahara Desert.

**Why was the Africa Great Green Wall initiated?**  
This project addresses the risk of natural resource degradation and drought in rural areas. With a goal of restoring 100 million hectares of degraded land by 2030, only 4 million hectares were restored between 2007 and 2019.



This partnership supports communities working together to achieve land resilience management in the management of forests, land areas, and other natural resources. This partnership also aims to help communities mitigate and adapt to climate change, as well as improve food security.



SOURCE: The Great Green Wall Implementation Status and Way Ahead to 2030 report - UNCCD



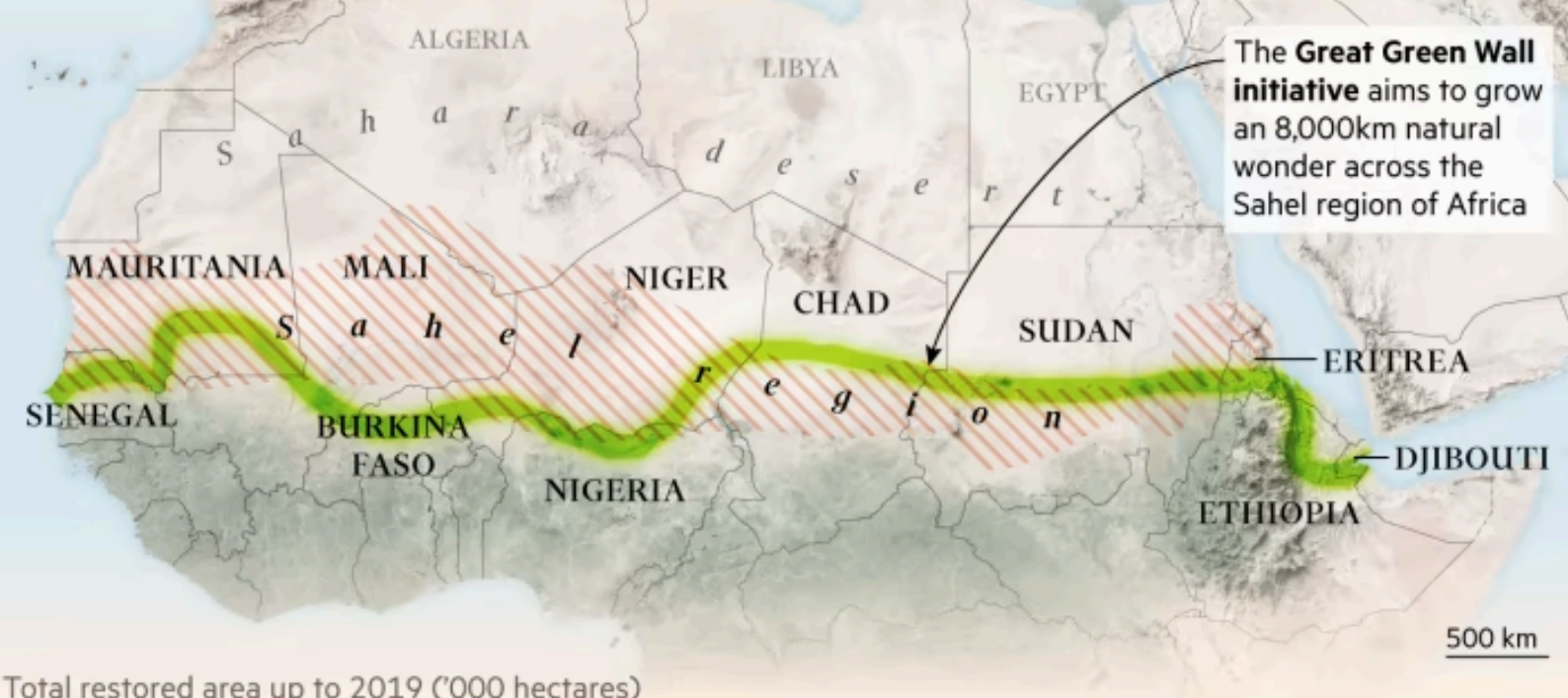
# Africa's Great Green Wall To Fight Climate Migration & Terrorism

The Great Green Wall program in Africa was developed with the goal of planting the green trees needed to halt the expansion of the Sahara Desert. Currently, the Africa Great Green Wall program holds significant potential to halt population migration caused by poor environmental conditions, lack of jobs, and growing insecurity stemming from the rise of the terrorist group Boko Haram, which risks recruiting youth and low-income communities.

Statistics from the international non-governmental organization Global Mechanism and Infocongo.org in 2020 show the following data, supported by the African Union Commissioner:

- Ethiopia has 15 million hectares of degraded land that has been restored and the security status of crucial cropland areas has been improved.
- Senegal has planted 11.4 million trees and restored 25,000 hectares of cropland.
- Nigeria has restored 5 million hectares of cropland and created 20,000 jobs.
- Sudan has restored 2,000 hectares of degraded land, which is now being cultivated.

The selected plant varieties are mostly Acacia species, which are able to withstand harsh climate conditions and have high economic value because they produce gum Arabic, a product used as an additive in food, pharmaceuticals, and soft drinks. In addition, other crops with diverse economic value include fruit trees with high demand, which open new market opportunities and generate economic activity for women.



Total restored area up to 2019 ('000 hectares)



Source: UNCCD  
© FT

Cartography: Steven Bernard

## Multiple Vast Arrays of The 21 Countries In African Union Great Green Wall Initiatives

In an effort to spread tree plantations along the Great Green Wall, also known as the African Great Green Wall, more than 21 countries have participated in various projects and activities to support the initiative, which spans the entire African continent from the Circum-Sahara to the Horn of Africa.

Among the actively participating countries are Algeria, Benin, Burkina Faso, Cameroon, Chad, Djibouti, Egypt, Ethiopia, Eritrea, Libya, Mali, Mauritania, Niger, Nigeria, Senegal, Gambia, Somalia, Togo, and Ghana.

The key countries in the Green Wall program—Senegal, Mauritania, Chad, Niger, Ethiopia, and Nigeria—are positioning their main footprint as prime examples of developing market-oriented crops, providing food sources and trees with edible fruit for animals during the dry season.

Furthermore, the Africa Green Wall also creates jobs for young people, thus preventing increased migration out of Africa, which is often driven by climate issues that hinder job creation.

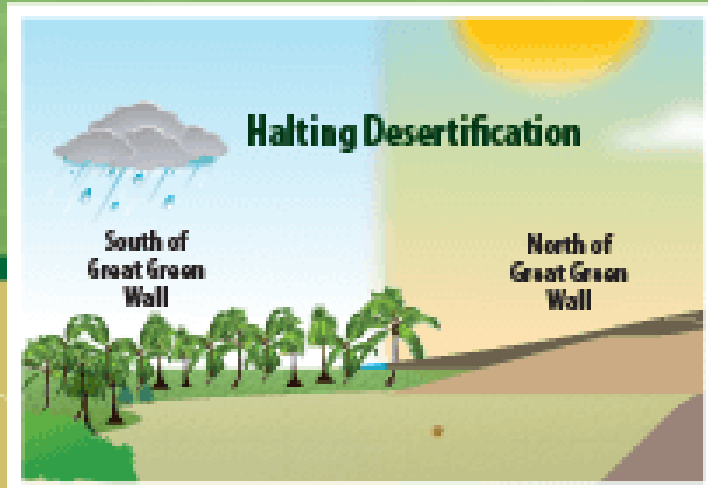
Senegal has so far planted more than 12 million trees within a 150-kilometer area, covering 40,000 hectares of planted area. The Senegalese government intends to expand the tree planting area to 545 kilometers, covering 800,000 acres, in the next few years.

# THE GREAT GREEN WALL OF AFRICA

## PROBLEM



**RAIN NOT IN THE FORECAST**  
1970-2000: 25-40% less rain  
than from 1930-1960.



### Barrier Farming

A unique way of farming with soil in desert-like climates.



## SOLUTION ATTEMPTS



### GREAT GREEN WALL THEN & NOW

Idea started as a wall of trees stretching across Africa. This was too simplistic. Currently, each country and locality will develop its own plan.



### FARMERS PITCH IN

Farmer-managed natural regeneration allows native trees to grow among the crops.

## Development of Eco-Tourism & Garden Market Vegetables

In countries like Burkina Faso and Senegal, the Africa Great Green Wall Project has enabled residents to reintroduce livestock and reap the benefits of harvesting the fruits of the diverse trees raised by livestock farmers.

People in Africa are now enjoying their daily lives as market-oriented vegetable farmers. Eco-tourism has even begun to flourish, creating jobs for many young people and helping populations that were previously inclined to migrate to choose to remain in their natural communities.

The renewed livestock and agricultural activities under the framework of the Africa Great Green Wall Project have created millions of jobs, empowered rural farmers, and renewed livelihoods in local communities across 11 provinces in Southeast and Southwest Nigeria. These provinces include Sokoto, Kebbi, Kano, Jigawa, Yobe, Bauchi, Borno, Gombe, Katsina, Adamawa, and Zamfara.

# Expanding Cultivateable Land For Agriculture in Africa

It began with the creation of semicircular ponds (hodgepodes) to collect rainwater and store it for irrigation, directly sourced from rainfall. This replanting project began in 1998, and by 2007, Ethiopia had developed 37 million acres of cultivated land, while Nigeria had restored 12 million acres.

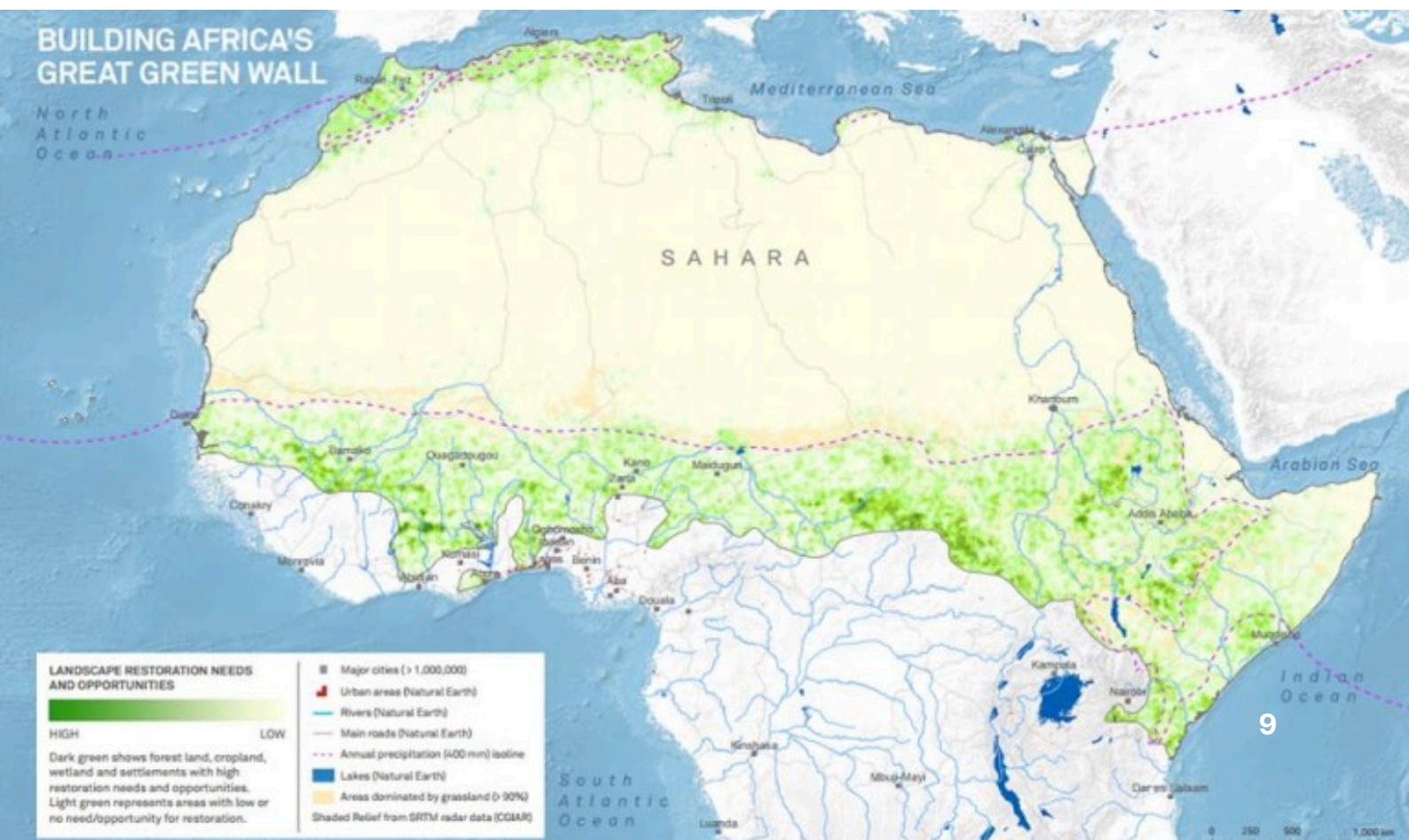
In Senegal, 11 million trees have been planted and thrived, creating a 931-mile green wall, restoring 61,000 acres of cultivated land. Residents have also seen a number of endangered animals, such as antelopes and hares, as well as several bird species that had been nearly extinct for 50 years, slowly re-establishing themselves in their habitats.

The growing ecological benefits of the African Great Green Wall are also paralleled by the economic growth it generates. In an area where money and products were once scarce, and where armed conflict arose over natural resources, jobs and food security have become increasingly promising.

Many women have now found employment working in market vegetable gardens, which are now able to grow in the improved soil conditions. Children can now attend school and no longer have to spend half a day traveling to find scarce water sources.

Although significant progress has been made, the Africa Great Green Wall project is still only 15% complete. The \$8 billion project, funded by the World Bank, the United Nations, the African Union, and the UK Botanical Gardens, is expected to be completed by 2030.

However, the effort and high cost have proven to be well worth the effort. The growth of trees has also led to the emergence of food production areas, jobs, and hope for the wider community in Africa, which was previously in a desperate situation. Many also hope that, upon reaching its goal, this new wonder of the world will encourage African children to stay and develop their continent, instead of migrating to Europe due to security concerns or to achieve their dreams of a better life elsewhere.





## River Basin Development in Nigeria

The Nigeria Erosion and Watershed Management Project (NEWMAP), launched in 2012 and based on community participation, is expected to be completed in 2022. It combines poverty alleviation with improved ecosystem resilience and disaster risk prevention. This holistic and innovative approach has saved the lives of over 12 million people across 23 states in Nigeria.

“When roads and drains were not yet built, my husband and I used to add sand to the damaged sections of the road due to flood erosion. Now, this is no longer necessary. The results of the NEWMAP project in our community have been excellent, and residents are happy that they no longer experience flooding and watershed erosion,” said Roseline Okhale, from the Ibore Community in Edo State.

**River Basin Development in Nigeria**

NEWMAP initiated the establishment of this mechanism to protect Nigerians from the future impacts of climate change.

The project focuses on repairing 90 drain lines and constructing 60 rainwater retention systems to control erosion. A disaster alert system was implemented at 103 detection and monitoring points, providing data for the development of improved water storage systems in the future, detecting rainfall amounts, and monitoring potential flood hazards for five different watershed areas.

A stormwater control system was also developed to prevent water from overflowing, addressing the effects of flooding in urban areas, taking into account the possibility of higher rainfall. Solid waste management was also developed to address potential flooding during the rainy season.

# Resolving The Primary Cavities Between Global Demands & Supplies

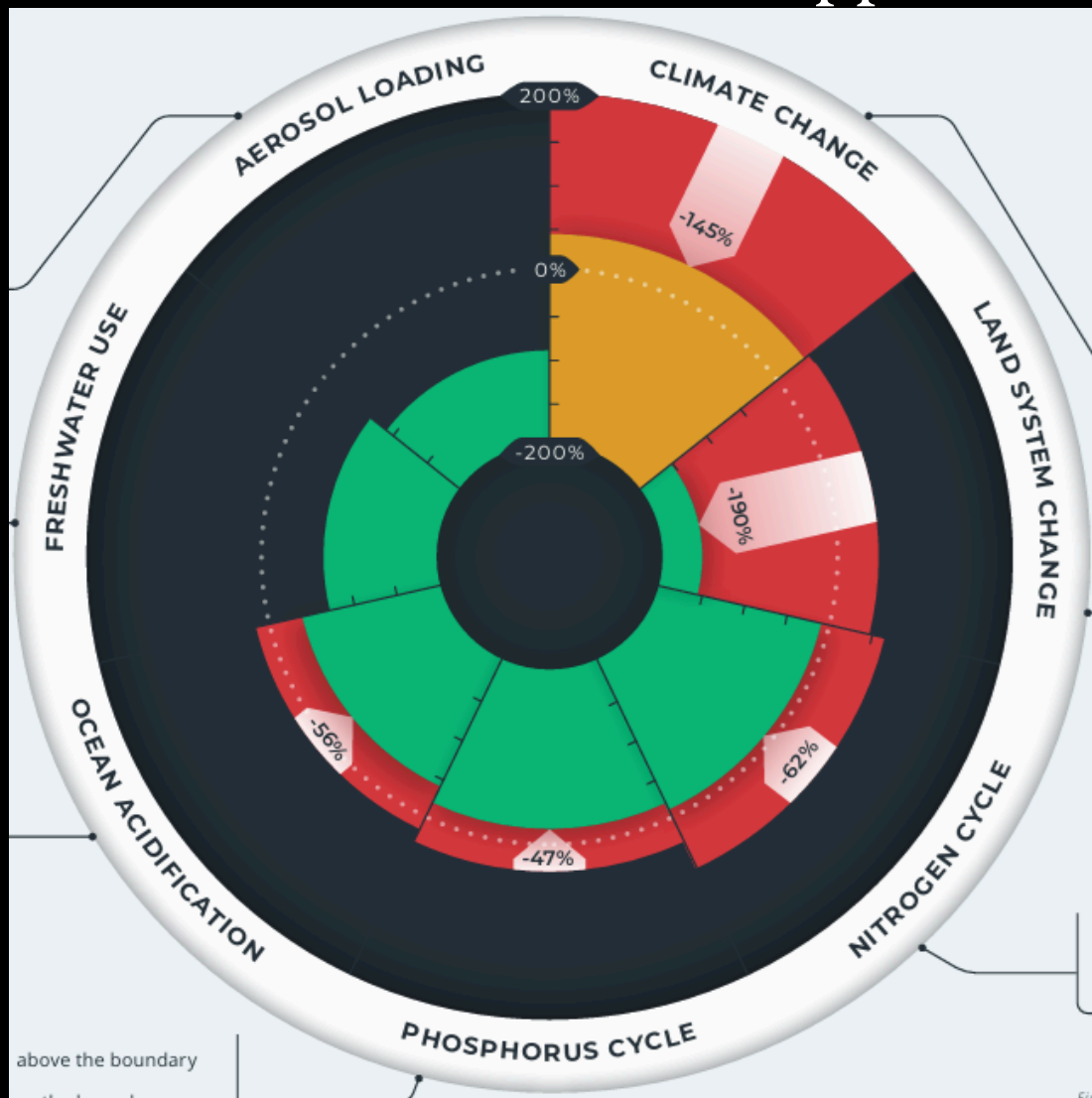


image source : global circular gap report 2023

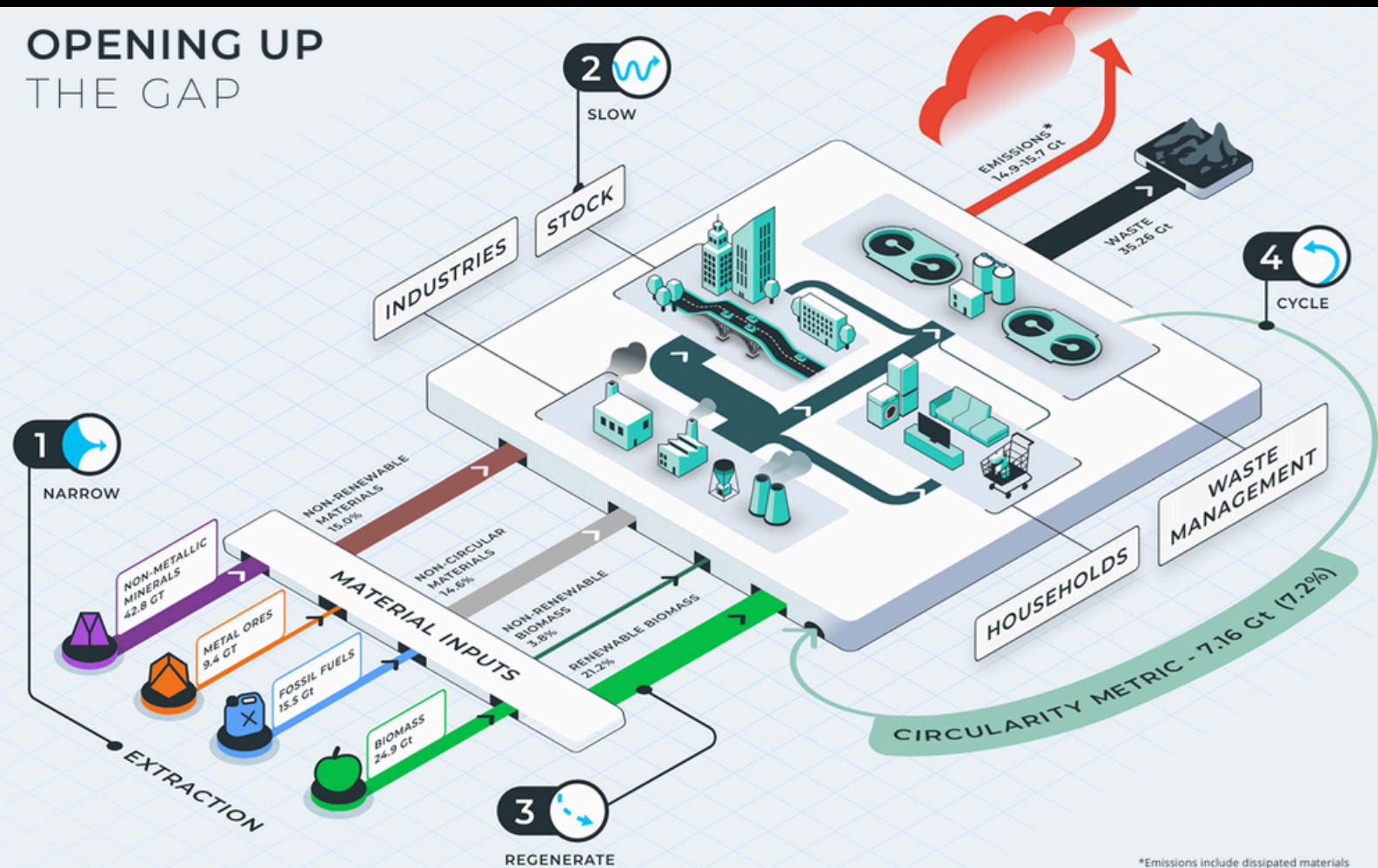
There has been a mismatch between the needs of the total human population on the planet and what is produced by mass manufacturing. This has resulted in overproduction, leading to waste in products such as textiles and food, while in other parts of the world many people still experience food and clothing shortages.

Similarly, global demand for a number of necessities that must be met quickly and with high quality, such as the latest medical equipment and pharmaceuticals, is also lacking in the supply of chemical and biochemical products based on natural ingredients.

In addition to the need for a global detection and monitoring system to obtain comprehensive, measurable data on food, clothing, health, and transportation needs, a global buyer needs assessment system is also needed to prevent overproduction at various key global manufacturing sites. Business continuity lies not solely in production and sales, but in finding a balance between needs and supplies. This will ensure industrial system stability and ensure global food and health needs are met.

# Equipping Interconnectedness Across Global Continents For Stabilizing Global Supply Chain Circularities

## OPENING UP THE GAP



By 2050, the world's population is projected to reach 10 billion people. This is a significant number. Therefore, global policies and intercommunication are needed to detect and monitor community needs, including health, food, clothing, and shelter, with up-to-date, readily available data. This allows disasters and accidents to be addressed quickly, or even prevented before they occur.

The global need for good nutrition is now being met thanks to rising global incomes. Food demand will continue to increase, while global food production capacity remains unchanged. One example is the demand for meat, which has increased 100% from 1990 to 2025, in just 25 years. According to the Global Circularity Gap Report, by 2023, the percentage increase in global food demand could increase from 35% to 56%.

Currently, new food hubs are being established in Africa, with the development of numerous livestock and plantations. However, the next challenge lies in the delivery of food and the production of processed foods currently produced on this vast continent. For this reason, a cheap solution with high quantities that are possible for delivery is by sea.

# Nautical Mega Structures Built For Ensuring Global Supply Chain Stabilities

In the Macro Engineering Field there's numerous Nautical Mega Structures built for Ensuring Global Supply Chain Stabilities Transportations and Storage Systems and even offshore Productions Manufacturing Process Solutions given by the Samsung Heavy Industries.



# FLOATING MULTI MANUFACTURER

## *Floating Productions & Storage Offloading / FPSO - Vessels*

The concept of floating oil and gas manufacturing has been developed since 1977 by several European shipping companies. In the development of the maritime industry, Samsung Heavy Industries has designed a variety of giant tanker vessels with the capability to process raw products from resource locations typically sourced from remote parts of the world, now utilizing sea voyages that can take months to reach their destinations.

One of Samsung Heavy Industries' largest products is the EGINA FPSO, manufactured for the French oil company TOTAL in 2013, to exploit the offshore oil field in Nigeria's Exclusive Economic Zone. The Egina field began oil and gas production in 2003.



# ARCTIC SHUTTLE TANKER

*Pertains Sails Against The Coldest Temperatures*

The Shuttle Tanker, capable of penetrating oceanic barriers in the form of ice walls up to 1.4 meters thick, is capable of maintaining a cruising speed of up to 3.5 knots per hour under the harshest conditions. It is also designed to operate and sail stably even in temperatures as low as -45 degrees Celsius.

Manufactured by Samsung Heavy Industries, the Arctic Shuttle Tanker boasts bidirectional forward and reverse navigation capabilities, making it suitable for travel to the coldest areas of the world, even reaching the polar regions without difficulty.



# LCO2 CARRIER TANKER

*Prolonged World Health Against Global Boiling Threats*




photo source : [samsungshi.com](http://samsungshi.com)

Winning two tenders at the end of 2024 has already met the USD 9.7 billion target for 2025. However, Samsung Heavy Industries is not satisfied with this and is determined to achieve even higher targets. Among the targets achieved are 36 tankers ordered by an Asian Shipowner for USD 7.4 billion and another USD 2.5 billion by a French-Japanese Joint Company for oil and gas exploration in Mozambique.

The quantity to be produced by Samsung Heavy Industries includes various tanker types, including 22 liquefied natural gas (LNG) carriers, two very large ammonia carriers (VLACs), one shuttle tanker, four medium tankers, four container ships, and three very large ethane carriers (VLECs).

Samsung Heavy Industries was chosen because of its deep expertise in integrating global monitoring technology with AI monitoring, high capabilities in terms of quality and production capacity, energy efficiency, and upholding environmentally friendly principles throughout its processes and technology.

One of the products with progressive innovation from Samsung is a Tanker that can carry CO<sub>2</sub> waste in liquid form from various major world manufacturers, to be carried out offshore geological storage in the form of sediment on the seabed, which makes this CO<sub>2</sub> waste safe to help on the seabed and placed in an area that is not harmful to the environmental ecology.



A number of wealthy countries, such as those in Europe and Asia, with limited land area, face difficulties in obtaining and producing electricity to meet their domestic needs.

Therefore, various solutions are being sought to meet the electricity needs of these countries. This problem came to the fore when many developed European countries, such as Germany, experienced power outages due to the conflict in Ukraine.

One solution developed by Samsung Heavy Industries is the offshore wind farm installation vessel, capable of simultaneously delivering and installing 12 3.6 MW wind turbines.

This tanker, powered by wind turbines, is also designed to install one wind turbine every 36 hours. This production capacity can continue even in harsh marine conditions, especially those with the risk of severe storms, and can withstand hazards up to 20 mph winds and waves reaching 2.5 m high.

# WIND FARM TURBINE INSTALLATION VESSELS

*Clean Electrical Energy Solutions for Countries Seales*

*Nautical Energy Solution To Advances Carbon Neutrality*

## WING SAIL TECHNOLOGY FOR WIND POWER AUXILLARY PROPULSION VESSELS



photo source : [samsungshi.com](http://samsungshi.com)

According to the UK Department of Transport's Clean Maritime Plan, the global wind propulsion technology market is expected to grow to US\$2 billion by 2050. Wind power, a limitless and pollution-free resource, is a crucial pillar contributing to carbon neutrality in the shipbuilding industry and large-scale intercontinental shipping.

Kim Yeon-tae, Head of the Technology Division at the Korea Register of Shipping, said, "The AIP certification for LNG carriers with Wing Sails is a representative example of Samsung Heavy Industries' environmentally friendly technological innovation," adding, "We hope Samsung Heavy Industries can play a significant role in achieving carbon neutrality in the shipbuilding and shipping industries."

Wingsails are aerodynamic structures with variable curvature installed on ships as a replacement for conventional sails. Wingsails consist of two basic structures that create an airfoil: a "soft" and a "hard" sail, both mounted on a rotating mast that lacks a stay. While hard wingsails are rigid structures that are stowed only after being removed from the boat, soft wingsails can be rolled up or stowed on board.

L. Francis Herreshoff pioneered a precursor rig that had a jib and a main, each with a two-sheet sail with the leading edge attached to a pivoting spar. John Walker explored the use of wingsails on cargo ships and developed the first practical application for sailing vessels in the 1990s.



image source : shi.svesSEL.com

## SVESSEL NAUTICAL VOYAGE DIGITAL SOLUTION

Samsung Heavy Industry Digital Solution SVESSEL Onshore (Ship & Fleet Monitoring & Optimization Solution) is an Information System Platform that provides web-based monitoring of general conditions on transcontinental sea voyages with cloud access from Amazon Web Services. This real-time vessel status monitoring provides comprehensive data and improves safety, economic viability, and environmental regulations.

This platform offers a variety of analytical tools to ensure optimal performance on transcontinental voyages. Samsung SVESSEL's sensor system facilitates fleet control when navigating narrow or busy channels such as the Suez Canal or at ports. Using AI-Based Route Optimization based on weather data, various external risks that could endanger voyage conditions and the cargo carried can be avoided.

### Collision Risk



## PLANNING

Trim Optimization



Route Optimization



## MONITORING

Overview



Fuel (Total)



Emission



Trend



Route Monitoring



SPMS



Propulsion



PMS



Vision



## REPORTING

Daily Noon Report



MRV



DCS

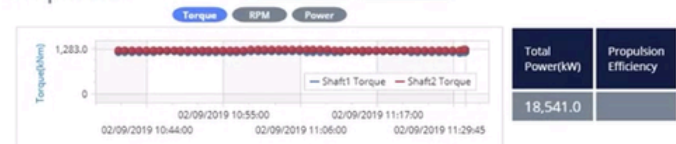


## SHIP PERFORMANCE MONITORING

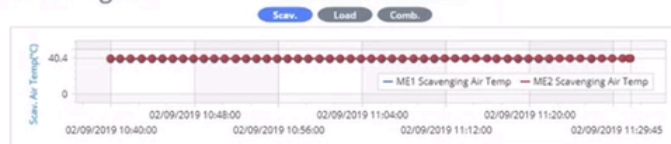
### Ship Status

Ship Heading	S.W Temp.	Total Distance	Total Ballast Weight	Wind Speed	F.P Draft	Trim
127.6 °	24.0 °C	2,605.0 km	- MT	14.6 m/s	11.2 m	0.0 m
Ship Speed	Water Depth	Rudder Angle	Total Cargo Weight	Wind Direction	A.P Draft	List
18.2 knots	- m	- °	- MT	350.9 °	10.8 m	0.0 °

### Propulsion



### Main Engine



### Fuel Consumption

Type	Main Engine	Generator Engine	Aux Boiler	GCU
Fuel Oil (kg/h)	0.0	0.0	0.0	
LNG (kg/h)	2,447.4	556.4	0.0	0.0

### Total Load

**3,086** kW | **71** %

April 2020

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

Start Time(UTC): 05 April 2020 03:47

End Time(UTC): 06 April 2020 03:47

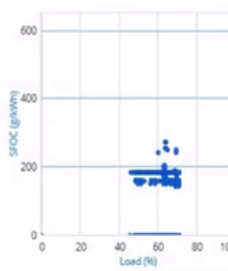
Display Period: 1 Week

### Status

DG1	
Run Time	62.6 h
Load Range	46 - 71 %
Fuel Oil Used	12,142 kg
SFOC	145 - 275 g/kWh
Average SFOC	184 g/kWh
Energy Output	87,382 kWh
Average Power	1,396 kW

DG2	
Run Time	57.9 h
Load Range	47 - 71 %
Fuel Oil Used	12,133 kg
SFOC	145 - 268 g/kWh
Average SFOC	184 g/kWh
Energy Output	81,444 kWh
Average Power	1,406 kW

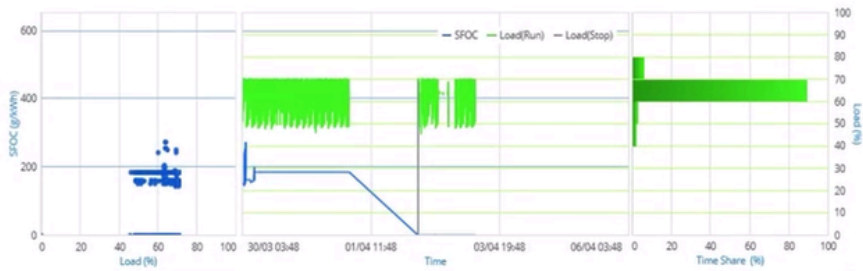
### SFOC vs Load



### SFOC, Load vs Time



### Load Histogram



# The Urgency of Developing a Global Disease and Accident Detection and Monitoring System

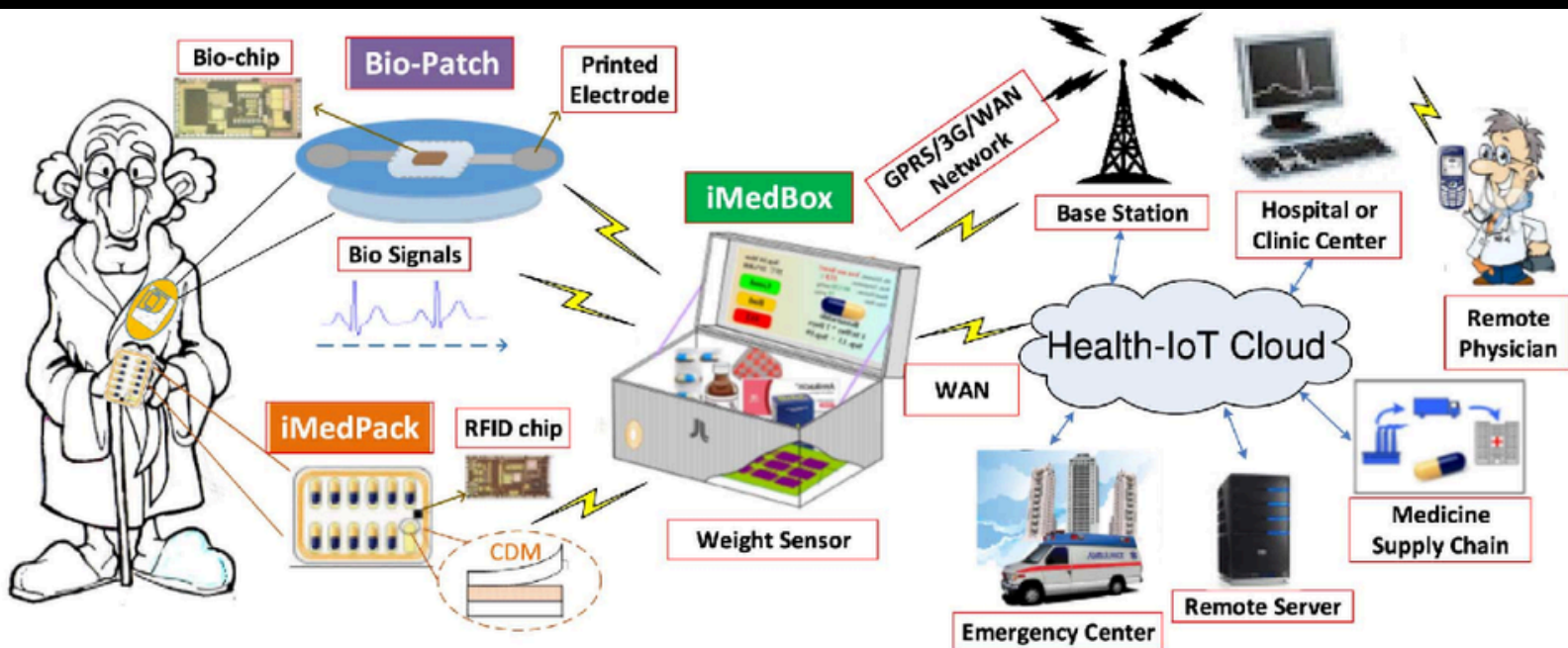
Airplane crashes are one of the most devastating international disasters. The outbreak of Covid-19 has also caused major disruption to the global ecosystem. Airports, once bustling with activity, have become eerily quiet. Even schools, offices, and malls, once always packed and crowded, have all closed.

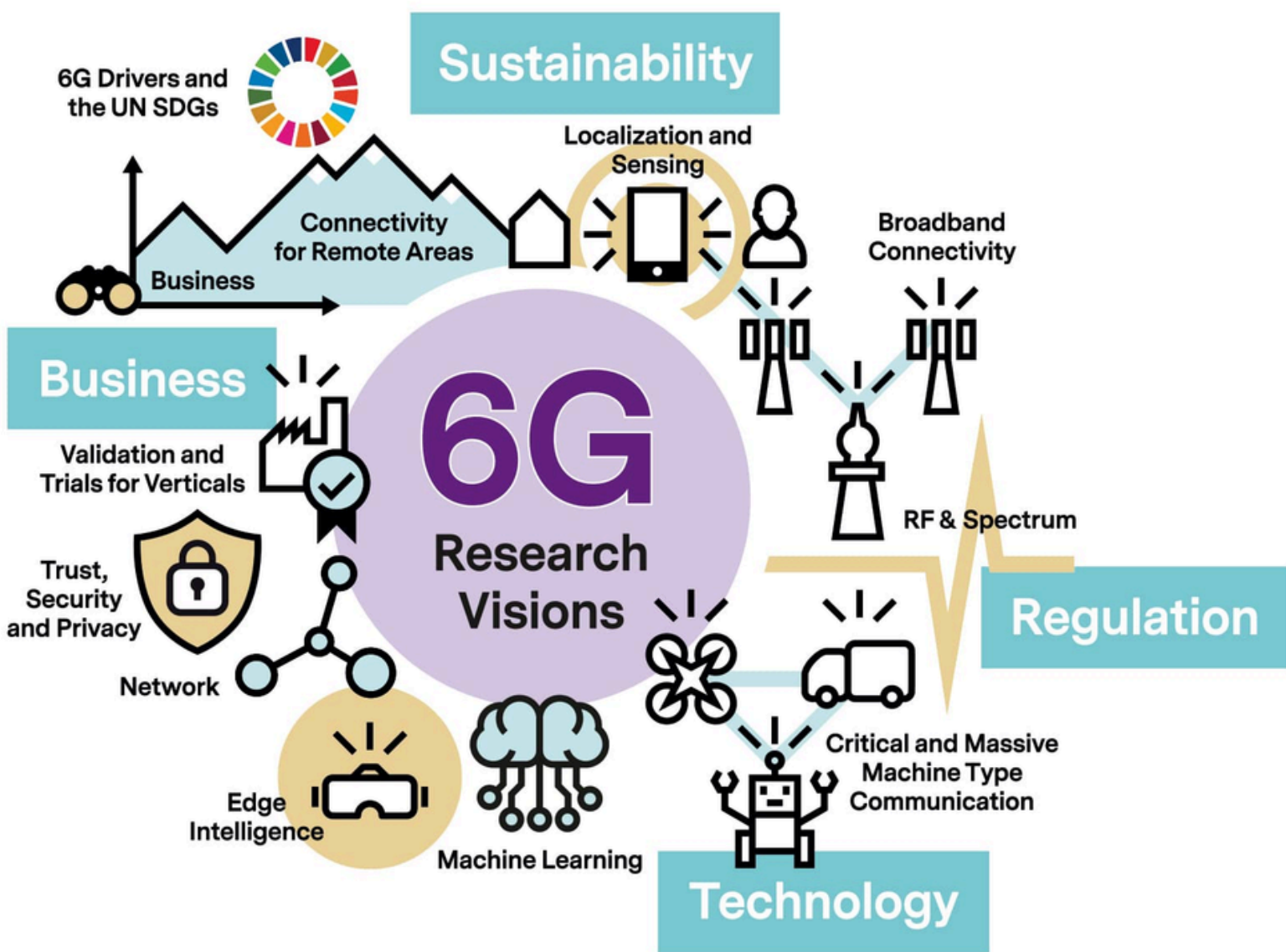
In addition to such major threats, we have also witnessed the sudden outbreak of chronic diseases, claiming the lives of many world and national figures around us. Heart attacks can occur suddenly when someone is far from the care of family and friends, for example, while cycling, riding a motorcycle, or traveling alone to a remote location.

When a tragedy strikes someone we don't know, the impact often doesn't affect us. But what if it happened to our own parents, friends, children, or colleagues?

Surely our views on the need to develop integrated location and health monitoring technology, with intercommunication between our location, emergency monitoring systems, and national monitoring of the need for medicines, food, and necessary medical equipment, would be different, wouldn't they?

Fortunately, there are already more than 30 thousand patents in the 6G field that have been developed by many high-tech countries to meet the world's need for the latest Information Technology and Artificial Intelligence.





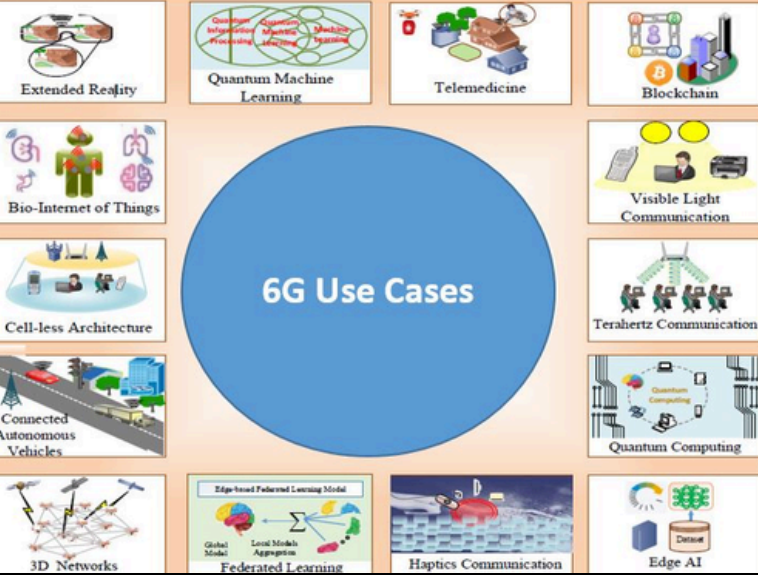
## AI for Securities, Finance, Military & Economy

One of the most common scams is in the financial sector. Money is the primary objective in any fraudulent scheme. The total losses suffered by Indonesians due to online loan scams reached IDR 120.8 trillion in 2022, up from only around IDR 2.5 trillion in 2021.

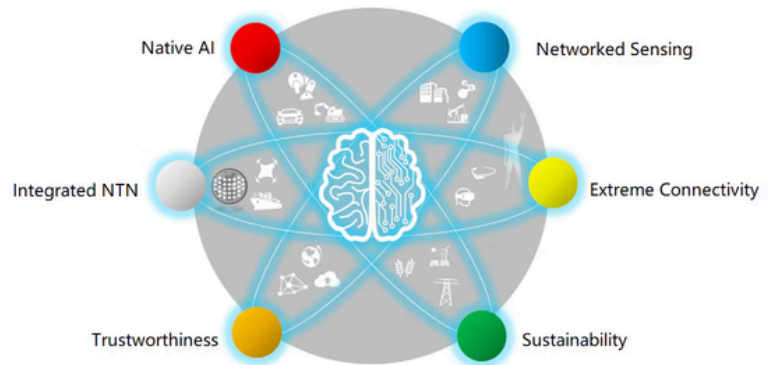
Another scam besides pinjol schemes involves password identification number (PIN) intrusions through various means to gain access to your personal bank account. Most of these scams involve phone scams (social engineering/soc-eng), which manipulate your thinking into believing the scammer's words, leading you to unknowingly give out your PIN.

This social engineering can also involve creating websites or banking applications or online financial services that are nearly identical to the original. As a result of this type of fraud, the owners of financial services or banks often have to cover the losses incurred due to the scam. This is especially true if the lawsuit is filed through legal channels or official reports, which can go viral due to the significant losses suffered by customers.

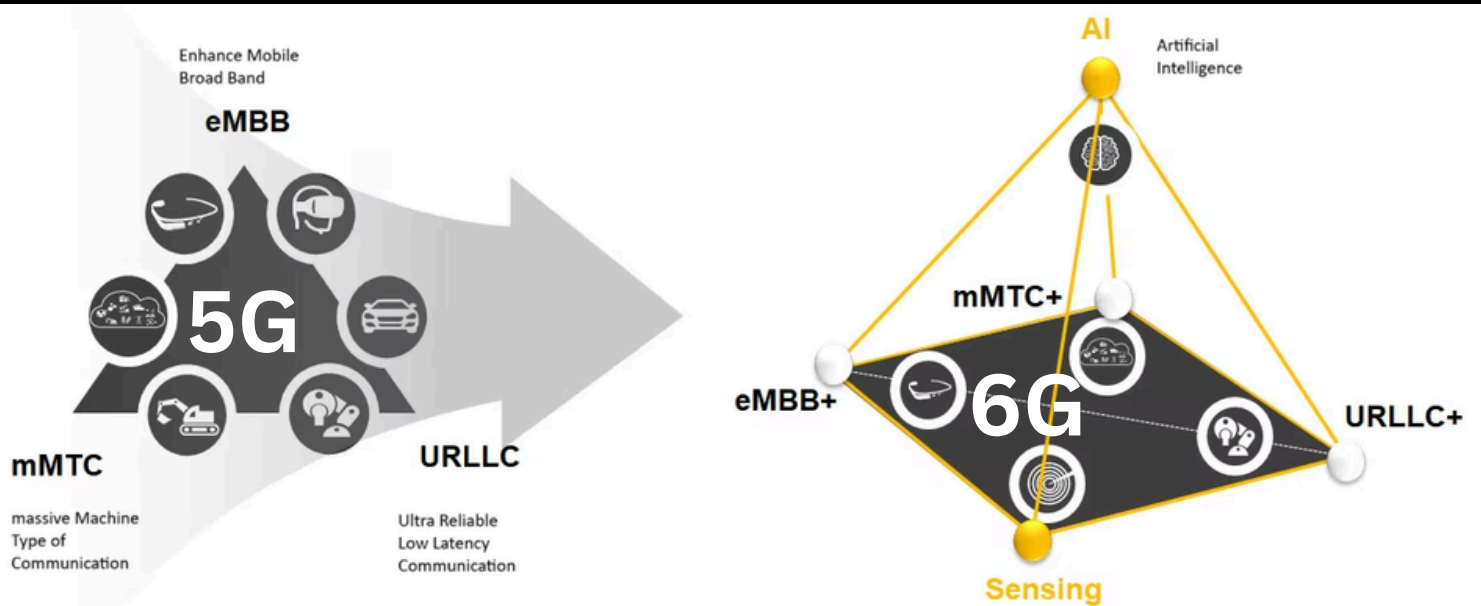
That's why everyone needs 6G AI to ensure that the development and implementation of safe technology are several steps ahead of increasingly dangerous criminal methods. Beyond financial services, 6G AI is also urgently needed for environmental security, military operations, and macro- and microeconomic data monitoring.



# 6 Pillars of 6G



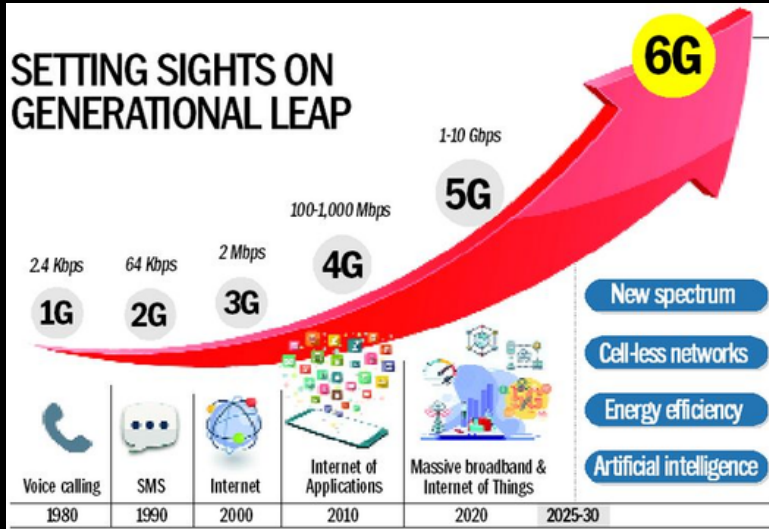
## Changes in Information System Interconnection to 6G



Changes in internet speeds aren't the only improvements from 5G to 6G. Key improvements include increased interconnectivity between various telecommunications devices, as well as the integration of artificial intelligence (AI) systems with geographic monitoring and remote sensing into various life functions. With 6G-based information systems, we can access these diverse technologies;

- The interconnection of various bio-internet of things devices, Telemedicine & Connected Autonomous Vehicles, which enable the detection and monitoring of accidents and declining health conditions from personal health devices.
- The development of the Terahertz Communication Ecosystem, based on the reflection of low-wave infrared rays in the air.
- A Global Detection and Monitoring System based on monitoring airborne lighting conditions through the Visible Light Communication ecosystem.
- Haptic Communication, which enables the blind/deaf to read, communicate, and obtain information.
- A learning system based on local wisdom from previously global and general information (Federated Learning).
- Quantum Machine Learning, Quantum Computing, and Cell-Less Architecture enable data processing to be super-fast, reliable, and not dependent on information sources from mobile devices.
- 3D Networks provides a variety of gadgets with holographic functionality for use in daily work, research, development, innovation, problem-solving modeling, detecting potential risks and hazards, and in everyday learning and entertainment.
- Edge Artificial Intelligence (Edge AI), which enables various devices to connect to artificial intelligence and machine learning systems without requiring cloud memory access.
- Blockchain Financing: a payment and financing system for various needs with access to blockchain funds.
- Extended Reality (Interconnection between visual systems of Augmented Reality, Virtual Reality, and Mixed Reality).

# How 6G Enabling Global Communication Interconnectedness

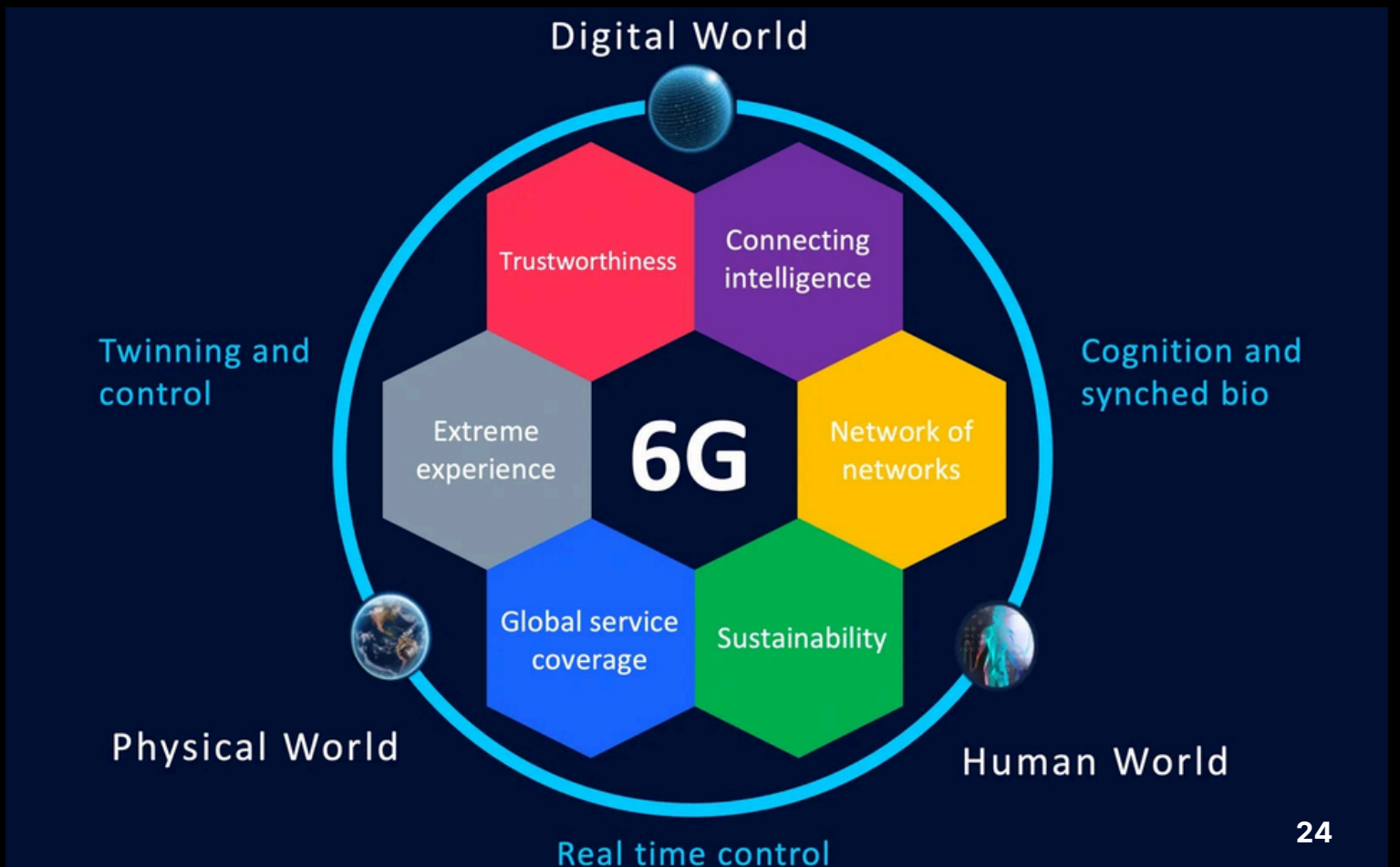
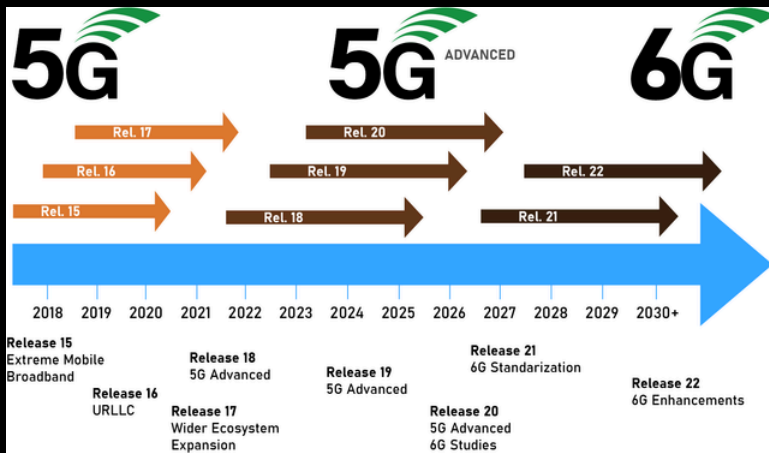


Imagine a global meeting where decision-making can incorporate various artificial intelligence technologies that can access vast amounts of data belonging to your global company or your country in real time, made possible by the implementation of 6G.

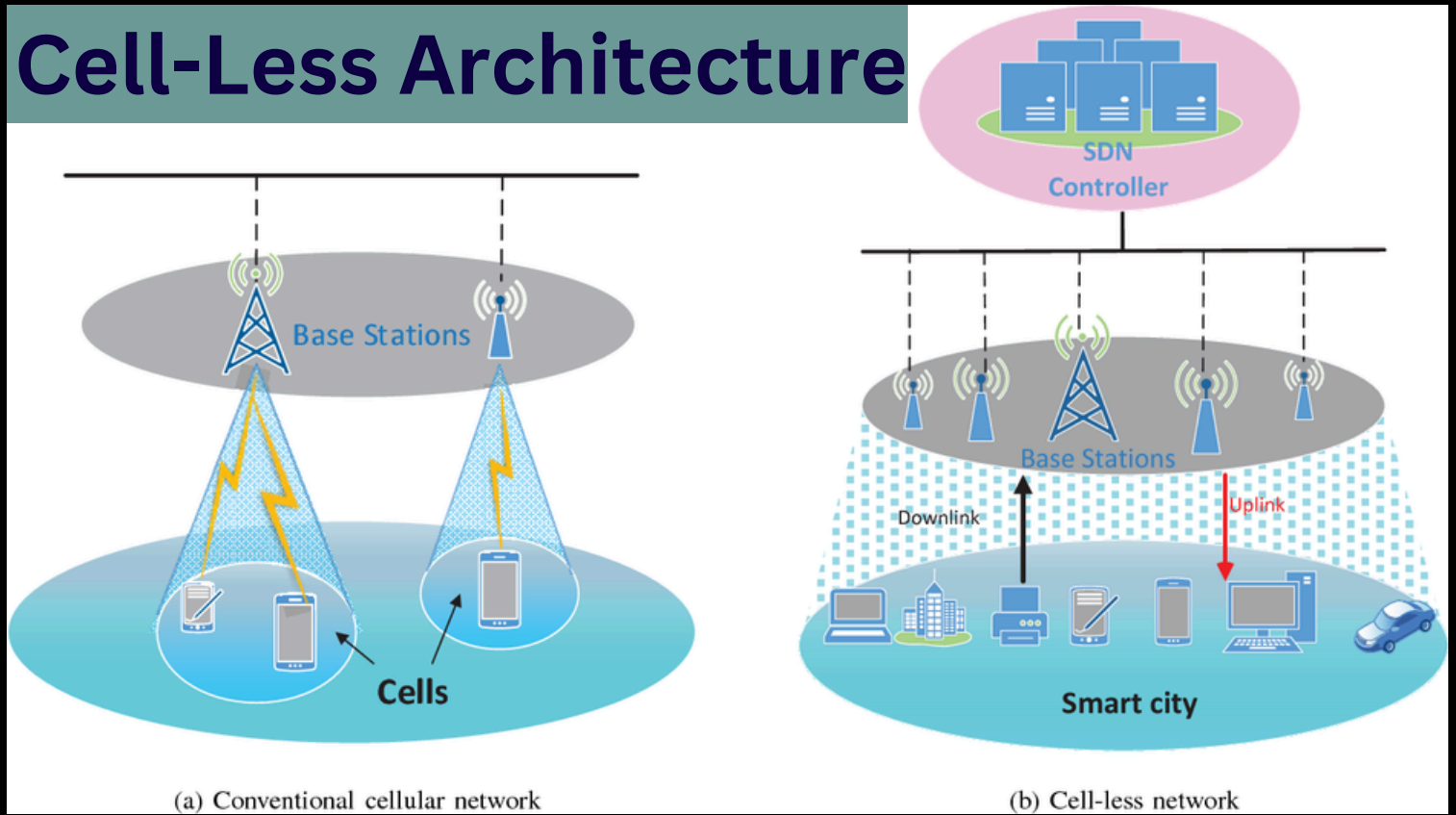
Communication is no longer limited to audio-visual forms, but is now available in 3D holograms and haptic communication, enabling even the blind and deaf to listen.

Within the framework of this 6G Information System, diverse data from global sensing and monitoring systems, which in 5G technology could only be processed through monitoring satellites, base transceiver stations (BTS), and very low frequency radio access network (RAN) antennas, will be more compact with more massive input and output capabilities (multi-modular massive input - massive output/mmMIMO). This makes the entire process more efficient, effective, intelligent, energy-efficient, cost-effective, and environmentally friendly.

In addition, the 6G Information System is also enriched with the latest data thanks to the possibility of Inter-Connection of Information System Devices via Visible Light Communication (VLC), and Terahertz (THZ) Communication from the detection of low infrared wave reflections to various monitoring points.



# Cell-Less Architecture



## With Variabilities of Primary Data Source, 6G Technology Are Far More Reliable, Efficient, Smart & Secure

6G technology offers a richer and more diverse range of primary data sources, enabling the realization of a Cell-Less Architecture. This is an Information Technology System Infrastructure design that is no longer solely focused on mobile device/gadget data, which is still unreliable and vulnerable to manipulation.

In the 6G Information System, by 2024 alone, more than 33,000 device, software, and system designs, along with various new innovations, will have been patented. This will enable systems for detecting, monitoring, and delivering information, communications, security, education, trade information, traffic monitoring, transportation systems, residential security, office technology, economic information, financial volatility, health monitoring, medical needs, and fulfilling entertainment and basic needs such as food and beverages to become faster, more comprehensive, integrated, and more efficient. This will enable people to live safer, more comfortable, more cost-effective lives, with more compact and environmentally friendly technology.

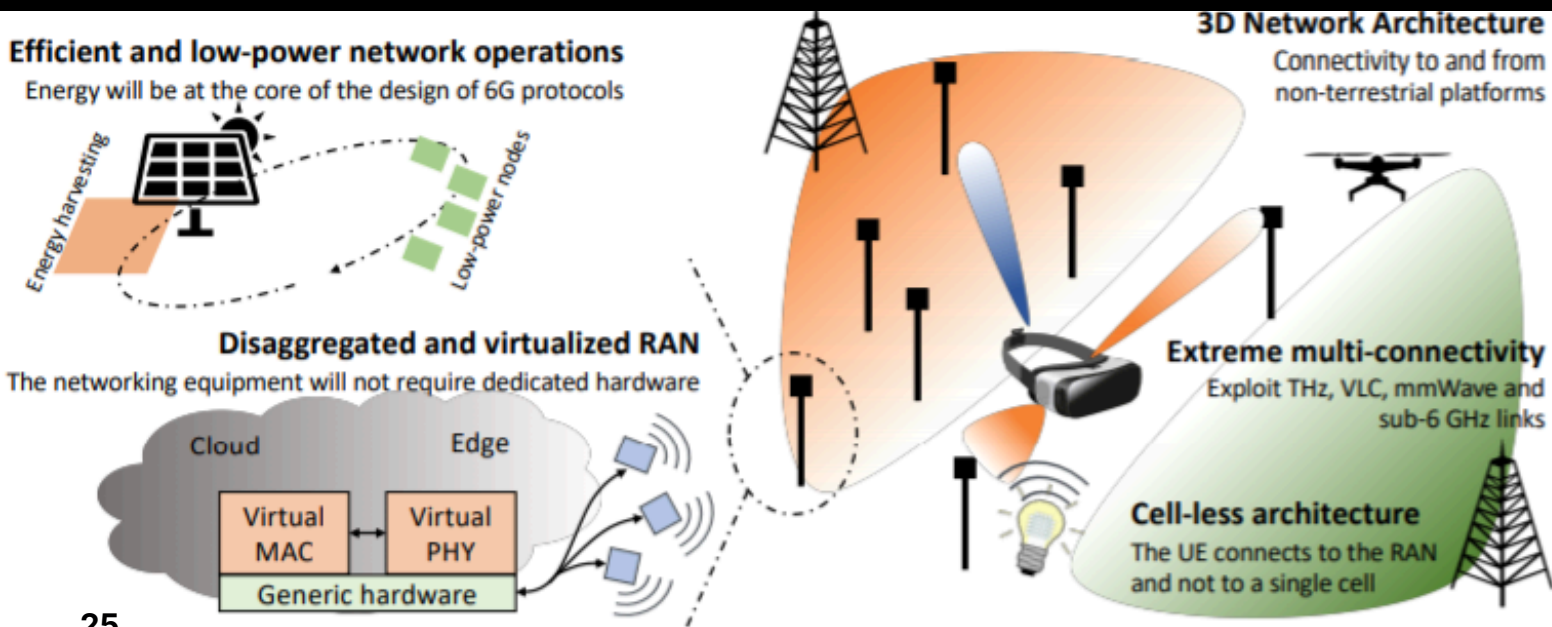


Fig. 4: Architectural innovations introduced in 6G networks.

# Welcoming The Future Frontiers

## Dynamics365 Multi Package Solutions

Since 1997, Microsoft has developed Enterprise Resource Planning Management System and Customer Relations Management System that are Risk Averse (able to make your business able to detect various risks early and able to overcome various consequences that may arise) and are able to detect buyer needs by conducting a Comprehensive and Detailed Data-based Buyer Need Assessment. So that it can be a protective fortress in the future (Future Frontiers) for your Business, Your Company, or the Industry and Manufacturing that you are leading. This variety of dynamically integrated Software is able to provide a number of management system needs for the necessary data, process the data as needed, so that companies can integrate strategic steps, marketing, operations, personnel, production planning, supply chain systems, which are safer, more protected from fraud, smart, concise, efficient, and effective, so that it can save a lot of costs and produce a more environmentally friendly system.



Power BI



Power Apps



Copilot Studio



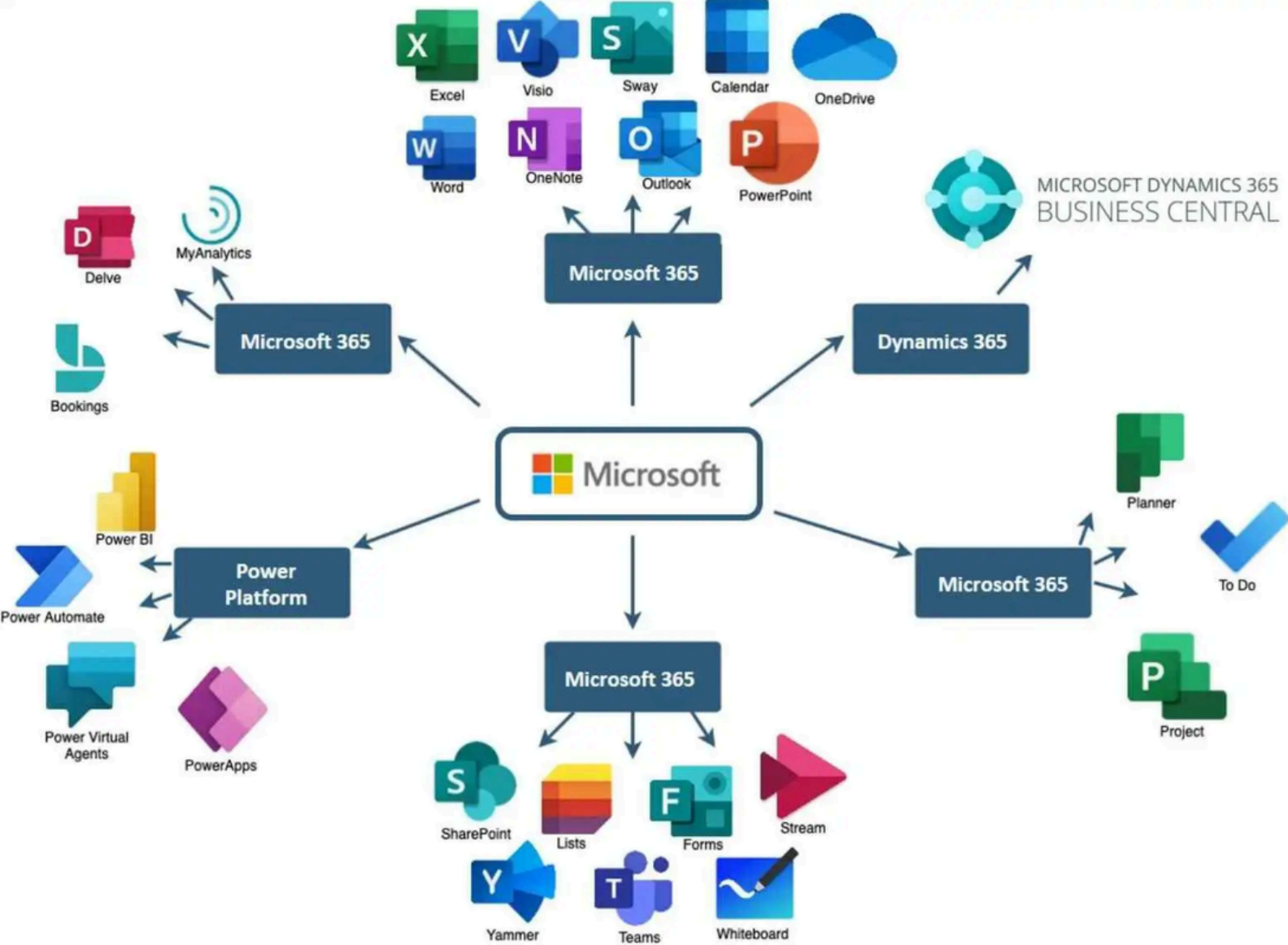
Power Automate



Power Pages



AI Builder



Expired, piled up, obsolete, degraded, and unusable raw materials are a significant waste. This is further exacerbated by the need for meticulous, meticulous, and meticulous management of raw materials storage. All of these issues can stem from lead times in order management, a core element of the Production Planning & Inventory Control (PPIC) process, requiring tactical and rapid solutions. Raw materials management for production planning in a supply chain management system requires intelligent and streamlined solutions. Not all intelligent systems are designed to be concise, simple, and efficient.

Therefore, finding a comprehensive, integrated management system with the ability to customize to the needs of your company, manufacturing, industry, office and administrative needs, and your diverse business needs, is a valuable and extraordinary discovery for daily use and innovation.

As a powerful system capable of encompassing all dimensions of your business, Microsoft Dynamics 365's diverse solutions offer limitless growth possibilities. This wide range of customization potential, which you can even implement yourself with minimal programming skills to find the most appropriate form for your company, can also be further developed to find balance in your management system whenever developments and changes occur in daily business (business as usual).

Whereas you previously had to replace your company's operating system every two years to maintain confidentiality and stay updated, this is no longer necessary. The unlearn and relearn process, which has become a necessity in business management, can be perfectly tailored, eliminating waste or overprocessing in your manufacturing and business management system, as is common with many legacy ERP and CRM solutions.

# Macro Approach of Data Assessment & Information System as Meta Cognitive Solution to Buyer Needs Assessment

The need for public implementation of various government programs, large-scale industries, or the emergence of massive consumer demand leads to the implementation of a development or strategic plan, which then initiates various projects, tenders, vendor selection, procurement, and public announcements.

However, despite government regulations mandating an open process and public announcements for almost all projects, vendor selection, and tenders, the reality is that much of the necessary information remains hidden, making it difficult to gain relevant insights.

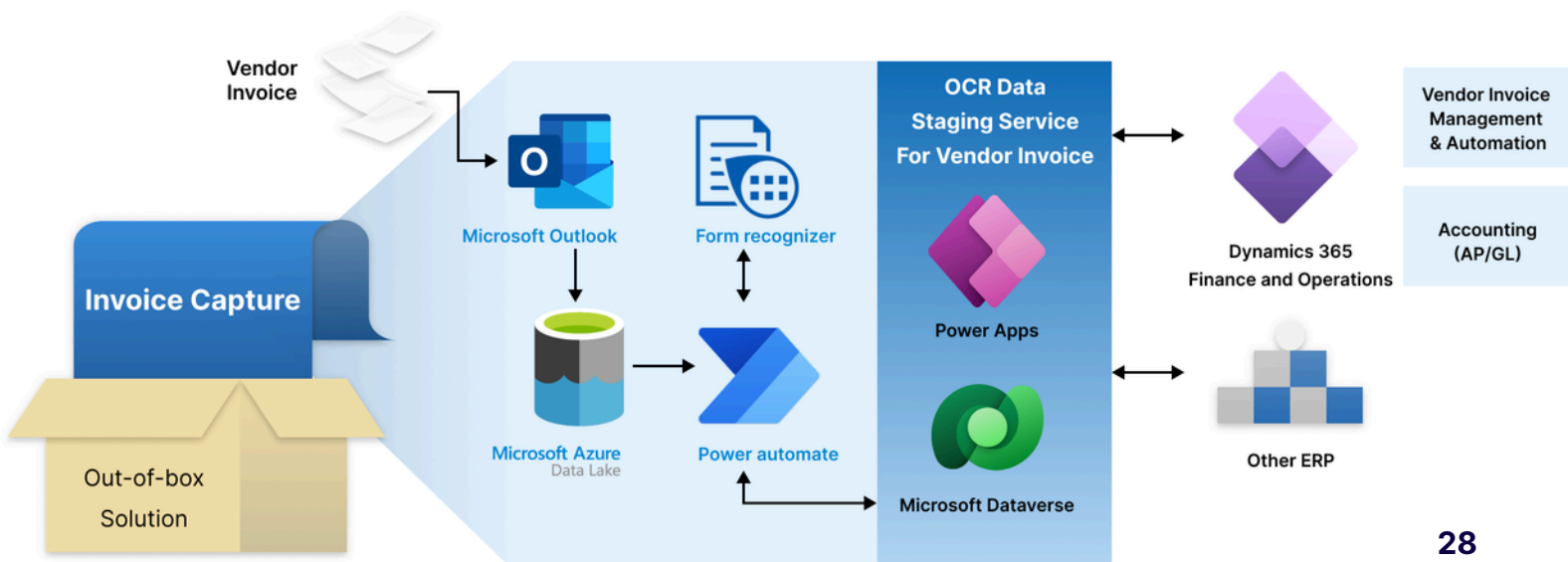
Amidst the automation of regular, repetitive, and almost constant business processes, reliable communication from sales teams with the ability to employ a human approach is essential to acquiring, managing, delivering, and seeking projects or orders from buyers or from other countries. Predictive planning and regular tracking of various business and administrative processes across the government, buyers, and consumers should be possible.

The tendering, bidding, awarding, and procurement processes required to secure sales orders and project orders constitute a significant burden within a company. This is further compounded by the demands for food, accommodation, transportation, communication, and a variety of other costs, which are substantial, lengthy, and often lead to regulatory and legal conflicts that jeopardize business continuity and pose a significant risk.

What if an integrated solution system, combining PPIC, management systems, HR, and sales and marketing, could empower your business to detect, estimate, calculate, evaluate, and monitor buyer needs, both B2B (business-to-business) and B2C (business-to-consumer), enabling regular, timely, and real-time assessments of the needs and demands of both businesses and consumers?

With high accuracy and solutions that can be packaged to be sharp and effective, Microsoft Dynamics 365 Customer Relations Management Data Assessment & Information System, various information and analysis needed by companies to be able to organize and plan for your entire business system is now at your fingertips (solutions at your finger tips) and can be clicked and customized according to company needs anytime and anywhere, with a system that is concise, easy to use and easy to implement, as well as efficient and effective so that it is appropriate, economical and concise with Microsoft Dynamics 365 Finance Invoice Capture & Microsoft Dynamics 365 CRM in your hands. By knitting functions from Azure, SalesForce, Power Automate, MS Dataverse, MS Outlook, 365 Dynamics & Operations & 365 ERP.

## Dynamics 365 Finance Invoice Capture



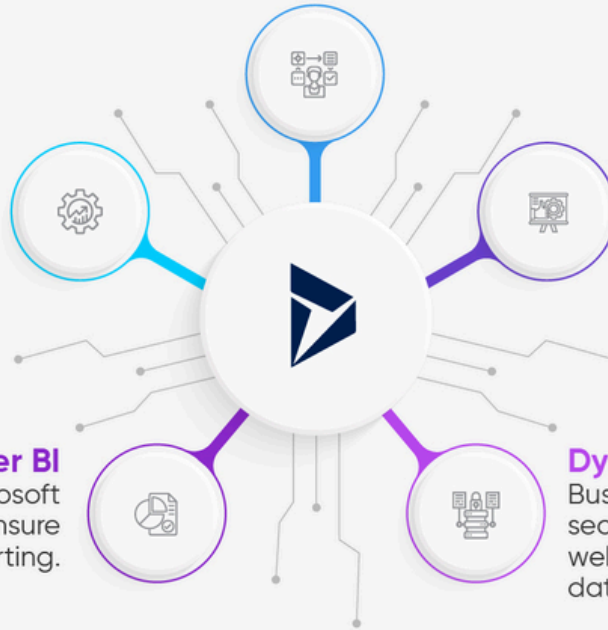
# Why implement Microsoft Dynamics 365 Business Central?

## Automated workflows Connected Business

With automated tasks and workflows within the Microsoft interface boost business efficiency.

### Gain a complete view of business

The connected data across the organization, get business analytics and intelligent guidance using Business Central.



### Business without silos

Dynamics 365 Business central removes data silos and seamlessly shares information between people and processes.

### In-depth reporting with Power BI

Business Central leverages Microsoft Power BI's intelligence to ensure in-depth organizational reporting.

### Dynamics 365 advanced security

Business Central delivers advanced security and role-based workflows as well as guaranteed uptime and data backups.

Various meta-systemic business administration information system solutions are typically rigid, overly detailed, and overly process-driven, and created using a general management framework with a global overview of regular business processes and organizational systems.

Consequently, a management information system, which should be a solution, instead creates new problems when implemented due to its high level of complexity. This negates the reality that every company, industry, manufacturer, and business has unique business processes and differing organizational systems.

The unlearn and relearn process to adapt a business administration data information system to our business and industry requires a learning curve of over a month each time the company must regularly change the management information system to prevent fraud, confidentiality breaches, and data management system intrusions.

Various business risks can arise from both external and internal sources. These risks can also arise from a mismatch between the needs and processes of the industry and business, and the business's Standard Operating Process (SOP), which should be set according to global standards, monitored for quality through regular audits and monitored by an internal self-audit system.

Therefore, Microsoft Dynamics 365 does not promise specific results to partners, companies, businesses, and consumers, nor does it set unattainable targets when first opening up to communicate with us as a company or industry. Instead, Microsoft Dynamics 365 wants to be a partner and from the outset open communication with every business and industry and any administrative system to weave together the required data information system solutions, so that they can be arranged appropriately, effectively, efficiently, concisely, but still progressively and maintain the quality of its confidentiality. So it is no longer the company that must adapt the system, but Microsoft Dynamics 365 that opens communication so that adaptive solutions can be produced.

# Microsoft Dynamics 365 for Marketing



Marketing is a crucial area that consumes the largest costs in a company, often even cutting into initial profits. Why? Because the goal of marketing is to create needs and generate demands among buyers, governments, consumers, and the public for the products and solutions offered by your company or business.

Therefore, it is often said that the spearhead of business lies in marketing. Many brilliant innovations are produced by inventors, but due to a lack of marketing expertise, of the millions of innovations produced by higher education institutions each year, very few ultimately develop and open new business opportunities.

Beyond communication challenges and finding the right ideas to communicate solutions and products for widespread consumer adoption, leaders in businesses, organizations, industries, technology, and manufacturing must possess the ability to accurately identify societal needs.

The placement of measurable artistry in marketing design for solutions and products, the appropriateness of language and composition, and even the music composition and video design that must be created to complement product and business introduction packages within various marketing campaign strategies launched by companies in a planned, measurable, and detailed manner must be packaged in targeted content compositions. Therefore, while this marketing skill comes naturally to some, not all businesspeople have mastered it.

To simplify the complexities of this marketing art, Microsoft Dynamics 365 CRM embraces all these challenges and difficulties, with the ability to monitor brand reputations and reflective sales conditions in real-time market conditions. It can even assist company marketing teams in creating high consumer engagement by utilizing artificial intelligence systems to generate effective marketing innovations.

# Why implement Microsoft Dynamics 365 CRM?



Marketing must always innovate. This innovative ability cannot be taken lightly. Many large companies produce thousands of innovations annually, spending enormous amounts of money on research, but they fail to sell. The fault, of course, lies not with the inventors or researchers who have dedicated countless hours to developing solutions and products that are appropriate and desired by the public, while being sensitive to market needs.

Furthermore, marketing experts must also possess knowledge of macroeconomics, psychology, art, history, and an understanding of the sociology of society. This allows them to detect, monitor, analyze, and even predict market conditions, and project far into the future to create stable business conditions and maintain the reliability of business processes.

Marketing experts must also be sensitive and intelligent enough to sense various dangerous warning signs of emerging global scenarios that may require specific steps and solutions to be prepared now, to prevent the danger of scarcity of demand in society or economic imbalances that could create conflicts in international trade and jeopardize the security of your global company.

Therefore, researchers and inventors must be continuously supported to remain innovative. Because the future is too dangerous to allow it to unfold without a defensive framework of millions of innovations. Experts in various fields of science and technology possess a keen awareness and sensitivity to the emergence of various alarming schemes.

The trained scientific perception of experts and educators is also always needed. Scientific developments must be continually absorbed, because we don't know which innovations will be the spearhead for various potential problems, risks, strategies that might fail, inaccurate predictions, or flawed analyses that may be acceptable today but harmful to the future state of the business and organization. As for marketing and sales strategies, we can leave that to the artificial intelligence system and integrated marketing management integrated into Microsoft Dynamics 365 CRM.

# Six Challenges you can solve by using Microsoft Dynamics 365 for Sales

Some of the major challenges that can be taken care with Dynamics 365 Sales are



## Proper Lead Management

Store all your leads and effectively manage them in Dynamics 365.



## Business Agility

Identify market trends quickly with easy access to the tool from anywhere through any device.



## Targeting the Right Prospects

Identify the right leads and focus your time and effort on those.



## Effective Communication

Streamline and improve your interaction with your customers and leads.



## Boost Sales productivity

Accelerate performance with real-time analytics based on historical data and predictive information.



## Improved customer service

Align your marketing strategies with your customers' unique needs..

Stability and sales growth must be continuously maintained in your business and industry to ensure robust growth and survival amidst the onslaught of incredibly high, challenging, and dangerous competition. This doesn't happen naturally; it must be targeted, cultivated, maintained, and created to ensure agile and rapid business growth. Sales and marketing results remain high, stable, and consistent, and develop in line with sales projections and tactical planning, creating a reliable business with a positive future (business forecast).

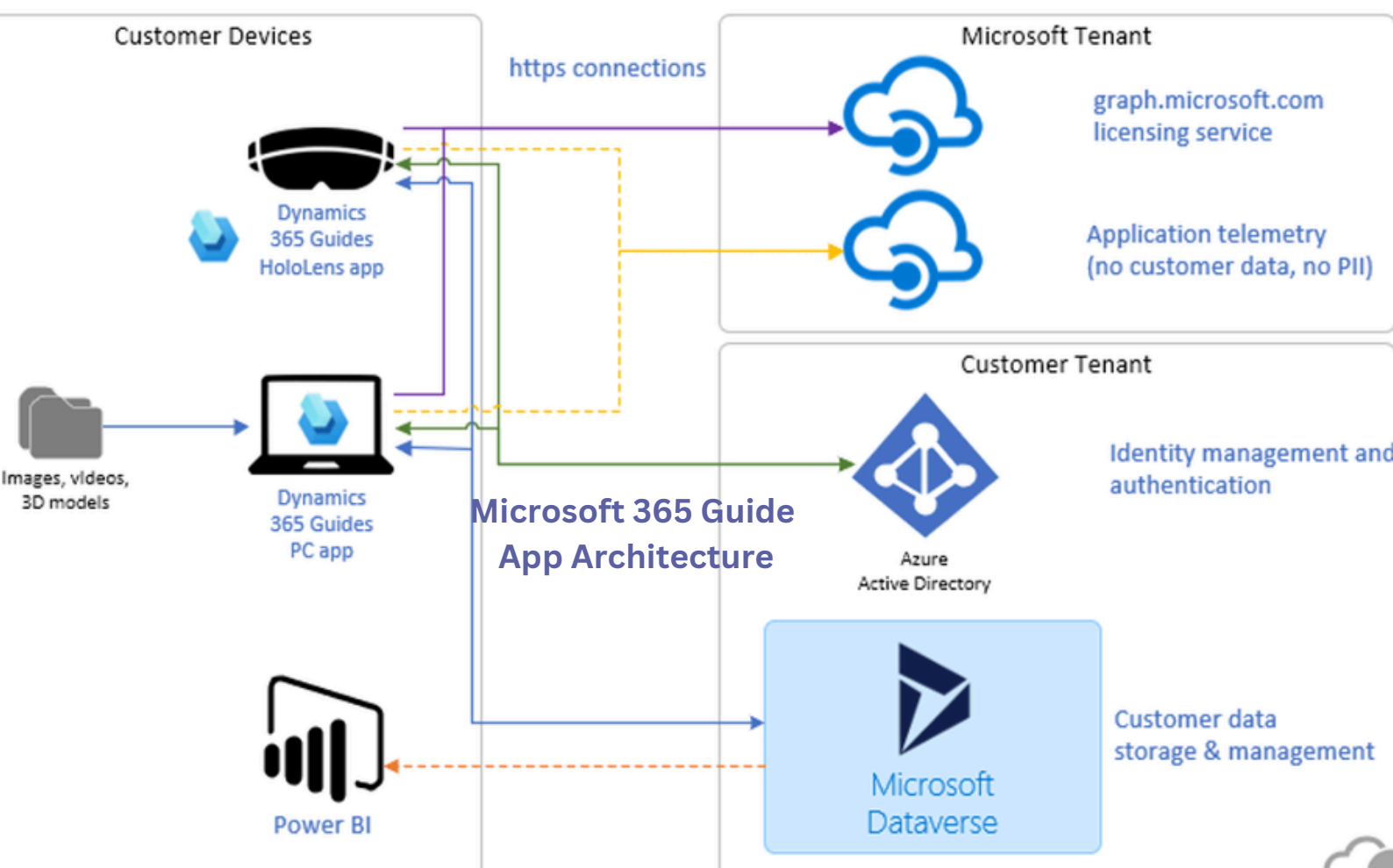
The company's ability to project target stratification in generating and identifying prospects and leads for sales creation, to engage in reciprocal communication in sales maintenance interactions, and to develop product and marketing strategies for sales development must be progressive and predictive, responsive to market trends, ensuring the business and industry remain sustainable, productive, and secure. To address these challenging challenges, a comprehensive data administration information system integration is available in Microsoft Dynamics 365 for Sales, which is adaptive and aligned with business conditions.

# 15 Latest Features of Microsoft Dynamics 365



Microsoft Dynamics 365 is a software tool capable of assisting companies and businesses with Business Continuity Management (BCM). BCM is a series of proactive, systemic steps designed to mitigate the risk of loss from major events that have a significant impact on businesses and industries, such as natural disasters, ransomware attacks, leadership changes, data theft, sudden acquisitions and mergers, and other events that impact company data and assets. The main areas of BCM are HR, data, hardware and software, finance, production systems and processes, including tangible and intangible assets such as copyrights.

The Business Continuity Management (BCM) Process Matrix can manage risks and manage responses to these various risks. Accurate analysis can generate countermeasures and steps that can be implemented as built-in procedures within your organization. So that the risk aversal procedure can then be accepted, managed, and continued in a standardized manner in your company, industry, or business and manufacturing, it must be designed with a task flow, responsibility framework, work flow, work target systemization that is packaged visually, with a comprehensive design and is sensitive to the emergence of risks.



Internal theft, criminal theft, corporate data intrusion, and fraud within the system are all extremely dangerous risks. Therefore, designing an information system, data management, and business administration that can monitor the entire business in total and in detail must be carried out within a reliable, practical, and effective data control system.

Some parties choose to build their own data infrastructure by creating a company software system. However, this is expensive, challenging, time-consuming, and opens the possibility of third parties acquiring your data system design. Furthermore, your employees must learn a new system they are unfamiliar with.

Control over business risks must always be in your hands as the business owner and leader. With the Microsoft Dynamics 365 Guide system, the data generalization and projection required for business intelligence in Microsoft Dynamics 365 is made possible by an integrated information system architecture with data generation from various sources, providing access to various legacy software programs within Microsoft Office that each of your employees already know and understand.

From the Microsoft Azure Active Directory, which operates on each of your tenants, you can actively detect and monitor business processes and monitor authentic data generated in real time. Microsoft Dataverse also stores and manages consumer data.

With Azure, data virtualization is easy, with at least 600 data analysis services available within your organization. Meanwhile, understanding, analyzing, and virtualizing consumer behavior projections are available through Microsoft Dataverse. This allows for customizable detection, monitoring, and data generalization, both in terms of data sources and detailed information on the likes, attitudes, perceptions, decision-making, and range of options of each business consumer, through a number of related platforms and applications.

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