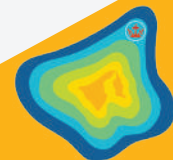


BDMD Towards 2025

| The Strategic Plan Book

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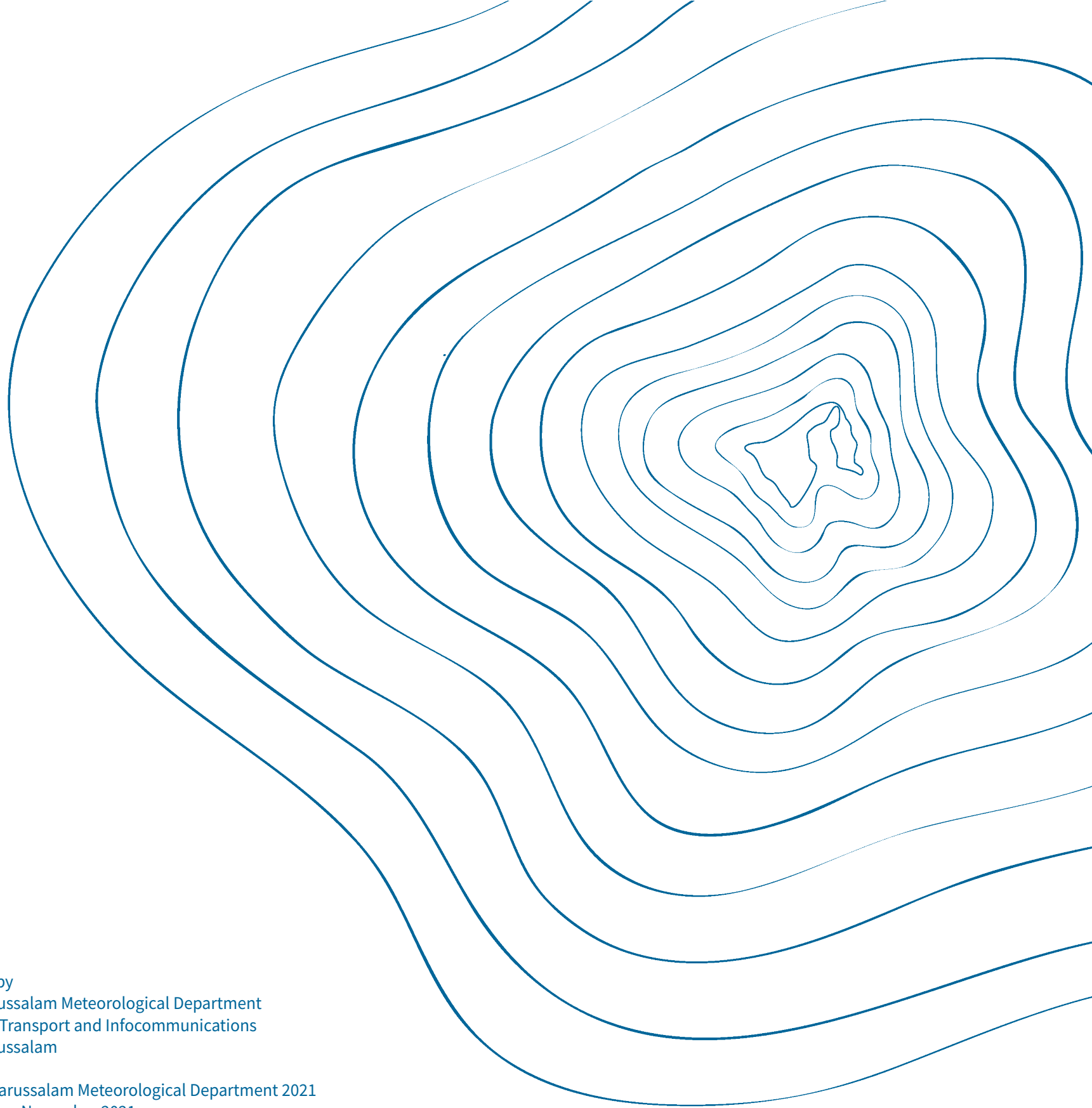


BDMD

Brunei Darussalam
Meteorological
Department



BDMD Strategic Plan Book



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INTRODUCTION

This strategic plan, BDMD Towards 2025, establishes the direction and provides the purpose and priority for the Brunei Darussalam Meteorological Department (BDMD), in a time of significant social, economic and digital challenges, which will support our ministerial and national aspirations. We are focused towards enabling a weather smart society that is able to fully benefit and understand the use of weather information for decision making and planning.

**“ We are the authoritative voice
for weather and climate
in Brunei Darussalam. ”**

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FEW WORDS FROM OUR DIRECTOR

“We are committed in our endeavours and expertise to provide the best service and assistance for a better understanding of our weather.”

MUHAMAD HUSAINI AJI

Bismillahirrahmanirrahim.

We are the authoritative voice for weather and climate in Brunei Darussalam.

Our purpose is to provide trusted weather and climate services for the protection, prosperity and well-being of our people. The Brunei Darussalam Meteorological Department (BDMD) supports the government, the public and industry customers achieve their goals in: improving our present well-being and in the future; enabling protection of lives, property and infrastructure; and increasing prosperity and enabling Brunei Darussalam’s economic growth and international competitiveness.

This strategic plan, BDMD Towards 2025, establishes the direction and provides the purpose and priority for the BDMD, in a time of significant social, economic and digital challenges, which will support our ministerial and national aspirations. We are focused towards enabling a weather smart society that is able to fully benefit and understand the use of weather information for decision making and planning.

The success of BDMD Towards 2025, will allow for the fostering of a culture of weather and climate awareness which is imperative for our society to take appropriate and timely action to safeguard life and property, and the well-being and prosperity of our nation.

MISSION

To provide accurate meteorological and climatological information for the safety of our people and the development and prosperity of our nation.



VISION

“**Trust and
Excellence**

In Weather and
Climate Services.”

Our Values and Culture

We define our values with purpose and through building relationships between all the circles within us that are significant.

These values and culture would influence our objectives, our work and ultimately what we wanted our organisation to become.

Our Values



Passion

The value that represents our people,
Passion is our core.

It begins with an intense devotion and enthusiasm for what we do. For us, our work represents more than just an occupation. It embodies our interests and our ambitions. It gives us a sense of purpose and reason to serve. This energy sparks from within, and with this passion, it powers the heart of our organization.



Commitment

Our value for what we practice,
Commitment is our stance.

As firm believers of our potential, we transform our enthusiasm into steadfast dedication. We stand committed towards our actions, our values, our people, our nation, our existence and our purpose. It is the foundation that establishes our integrity and our character. We are in it for the long haul.



Care

Our value for our service quality,
Care is our promise.

Only with empathy are we able to embrace the human elements of our personality and become a provider that understands compassion. With this compassion we earn respect. Respect that enables us, that endorses us. Respect that shows we care. It is a virtue that helps us build meaningful relationships.



Growth

The value that captures our ambitions,
Growth is our inspiration.

We plant our inner values of passion, commitment and care as seeds for growth. The strength in our foundation is internalised. It ensures that our premise to serve remains strong-willed, focused and decisive. We are motivated to persevere, to advance and to develop. It reflects our desire to achieve our greatest potential.



Innovation

Our value for our products,
Innovation is our strength.

As we grow, we learn to adapt, to invent, discover and create. Science is our consort and technology, the tools of our trade. What establishes our capacity to create impact is our ability to innovate. We take pride in our aptitude to derive intelligence from our craft. It is what legitimises our authority.



Trust

The value of our relationships,
Trust is our confidence.

Our purpose, our values, our actions and their consequences convince others of our ability and our reputation. The foundation we built externalises our inner strengths and amplifies them. It is why we remain confident in our integrity and our pledge to serve our purpose.

Our Culture

Safety-Minded

We make concerns about safety hazards as shared responsibility for everyone in the workplace.

Respectful

We show positive feelings for others as they are considered important and held in high regard.

Humble

We show our willingness to be open to others and accept feedback.

Teamwork

We strive to become a unified group towards achieving a common goal whilst connecting with others.



Helpful

We provide aid and assistance to those in need of advice and help for matters pertaining to our core business.

Friendly

We show kindness and care to create a warm atmosphere for the comfort of others.

Approachable

We give ease for others to reach and talk to us through various channels and encourage openness in all forms of communication.





Strategic Objectives

SO 1

Increase generation and enhance utilisation of products and services



SO 6

Optimise cost of operations and asset management



SO 2

Attain and improve reliability and timeliness of services



SO 5

Develop exceptionally skilful and talented people



SO 3

Governance and adherence to international standards and regulation and increase involvement in international activities and programmes



SO 4

Enhance management and utilisation of digital and information technology





Strategic Objective 1



“
**Increase generation
and enhance
utilisation of products
and services**
”

To provide products and services that benefit our users in the way that they want, for more detailed information and to access this information easily.

To grow and strengthen the breath and impact of our service.



 New meteorological products and services implemented annually

 High level of user satisfaction reached

Strategic Objective 1
Increase generation and enhance utilisation of products and services



2021-2025

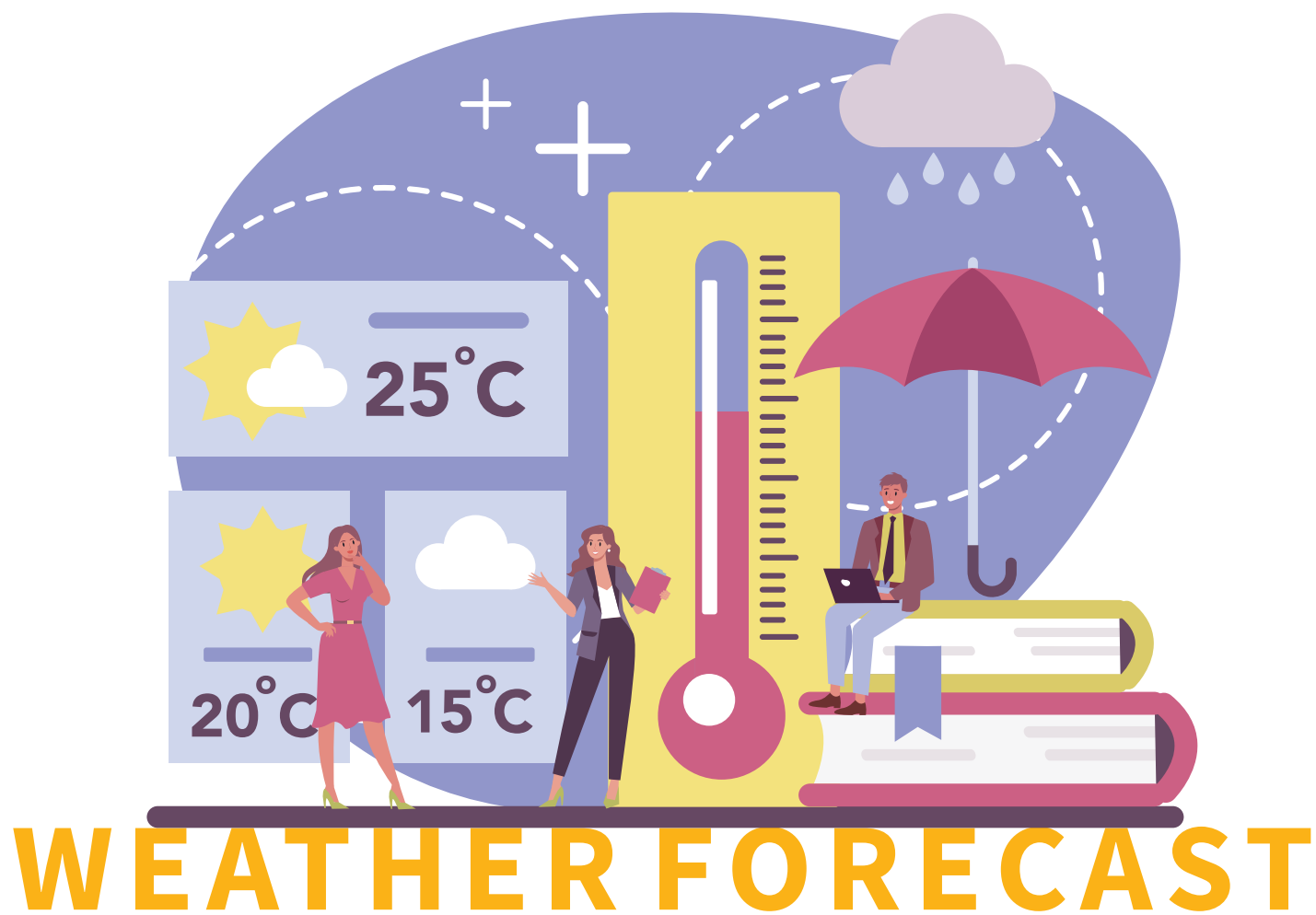
Initiatives and Action Plans

Introduce Meteorological Products Development Programme

- Promote research and development.
- Identify current and potential users.
- Introduce new or tailored products and services.

Increase BDMD visibility and recognition

- Introduce BDMD Anytime Anywhere Programme.
- Promote positive user relations.
- Manage and grow customer relationships.



Strategic Objective 2



“

**Attain and improve
reliability and
timeliness of services**

”

To further improve the accuracy and timeliness of products and services to meet the increasing demand and expectations from the public.

Adhering to Brunei Darussalam's international obligations and attaining international standards and best practices in reducing weather related hazards on society's well-being and property.



Execution of new
weather observational
systems infrastructure
projects



24-hour
weather service



Utilisation of
next generation
forecasting models

Strategic Objective 2
Attain and improve reliability
and timeliness of services

Initiatives and Action Plans

Execution of Weather Observation Systems Infrastructure Projects

2021

2022



01

Automatic Weather
Observation System
for Brunei International
Airport



02

Replacement of
Doppler Weather
Surveillance Radar



03

Upgrade of
National Automatic
Weather Stations



2023

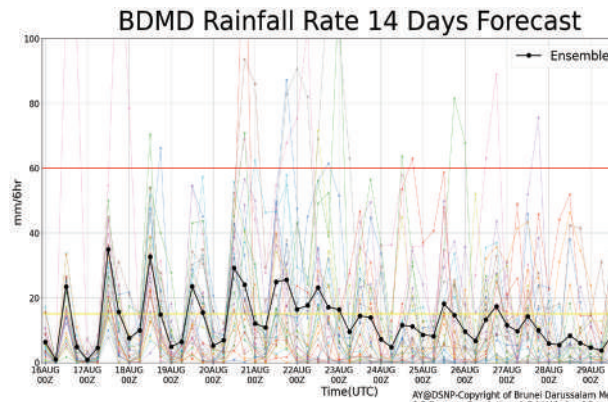
Implement 24-hour weather service
Enhancement of automated services and to optimise
available resources with utilisation of digital technology.

2024

Increase utilisation of Numerical Weather Prediction, Climate, Nowcasting Models and Methodologies

01

Install, run and verify Seasonal to Sub-seasonal climate model.



02

Install, run and verify the Weather Research and Forecasting model.

03

Identify other appropriate NWP and other climate models for forecast centre.

04

Develop resilient systems and processes that support sustained delivery of products and services to our users.

05

Develop nowcasting model by integrating weather radar data.

06

Explore and gain access to international data streams.

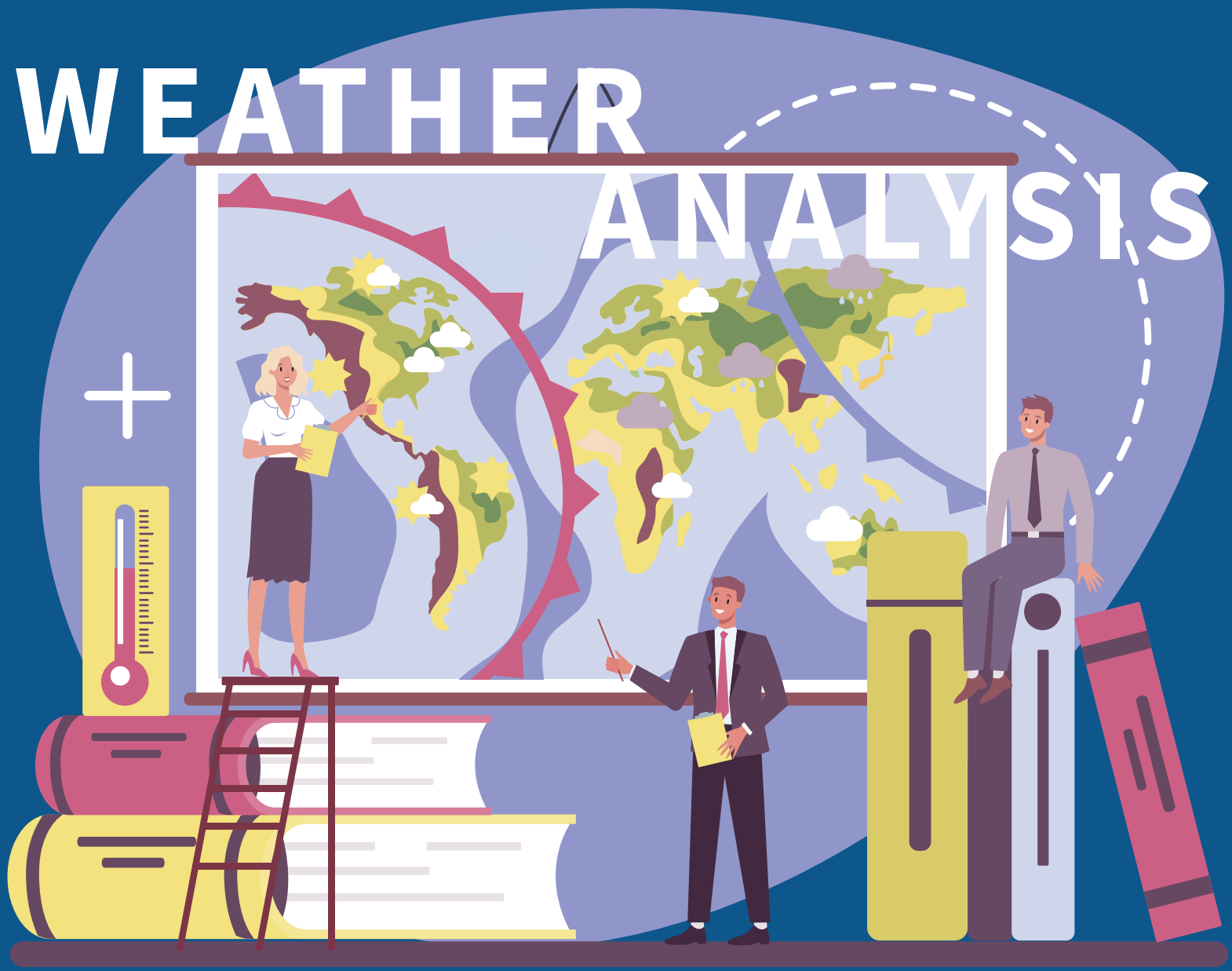
07

Integrate the Next Generation Forecast and Warning System with existing forecasting systems.

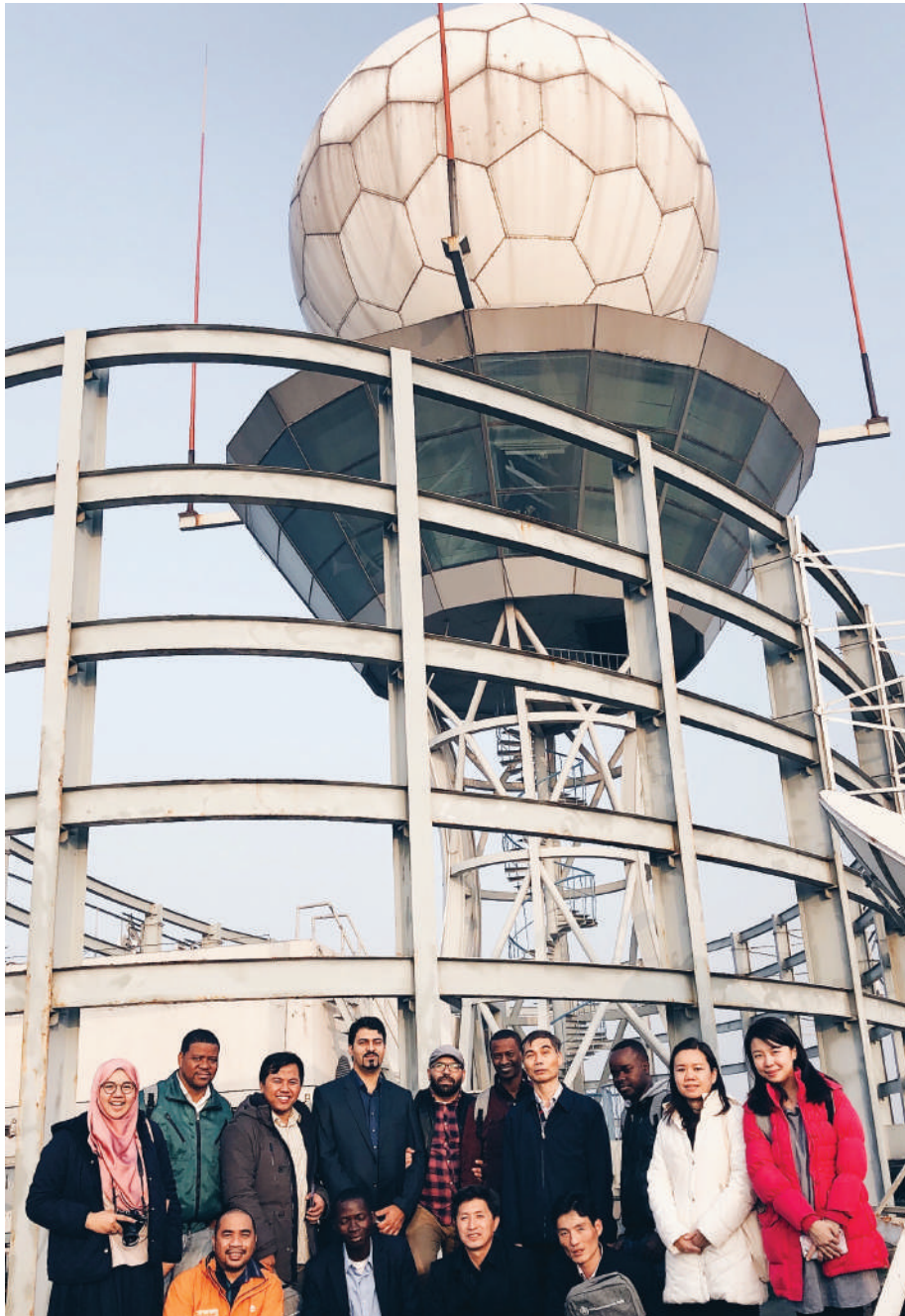
08

Continue to maintain and develop Flash Flood Guidance System.

WEATHER ANALYSIS



Strategic Objective 3



“
Governance and adherence to international standards and regulations and increase involvement in international activities and programmes
”

To ensure compliance and conformity of services provided meeting the standards, regulations and recommended practices set out by international bodies.

To achieve needed performance level, safety requirements, allowing for meteorological products, systems, processes to be consistent and repeatable as well as seamless international exchange of meteorological information and data.



 Certification and compliance to international standards

 Annual internal and external surveillance audit

 High participation in international activities

Strategic Objective 3
Governance and adherence to international standards and regulation and increase involvement in international activities and programmes



2022

ISO Certification and Compliance

- Implementation of Quality Management System.
- Obtain ISO 9001:2015 certification through external audit.

2025

Enhance efficiency, consistency and quality

- To maintain certification through annual internal audit process and external surveillance audit.

Increase participation in international activities

- Increase utilisation of available capacity building programs organised by regional and international bodies.
- Increase involvement in regional and international working groups.

Initiatives and Action Plans



Strategic Objective 4



“
**Enhance management
and utilisation of
digital and information
technology**
”

To benefit from digital and information technology and the concept of digital database forecasting to form the capability to meet user demands for more accurate, detailed weather forecasts as well as integrating forecast dissemination and service delivery to effectively serve the community, agencies and the nation.



All services and products in digital form



International certification and compliance



No data loss



Reduction in printed documents



Annual increase in number of online users

Strategic Objective 4
Enhance management and utilisation of digital and information technology

2022

Initiatives and Action Plans

Certification and compliance
to ISO/IEC 27001:2013

Implementation of Information Security
Management System.

2023

90% reduction in printed documents

Simplify corporate administrative processes
to increase efficiency. Review business practices
and simplify back-office operations.



2025

Initiatives and Action Plans

100% of services or products converted into digital form.
Harness new technology to transform the way we operate and deliver services.

- Modernisation of BDMD forecast centre.
- Online payment for sale of data.



0% data loss.

Sustain BDMD's systems for measuring, collecting and preserving Brunei Darussalam's weather and climate data assets as a critical national resource for current and future generations.

- Strengthen maintenance of observation systems and preservation of weather and climate data.
- New and innovative approaches to management and preservation of weather and climate data.

Double number of users.

Maintain and improve usage of mobile application for service delivery.

- New features in Brunei Darussalam's weather mobile application.
- Further develop online tools for customer interaction and queries.
- Develop an implementation plan for database forecasting.



Strategic Objective 5



“

**Develop exceptionally
skilful and talented
people**

”

Building up BDMD’s observation, forecasting and analytical capability, with the importance of weather and climate services to various sectors in their planning and implementation in mind.



Fully certified
competent personnel



Annual job
audit review



High expertise level
of personnel



Establish capacity
building partnership



High accuracy in
aviation warnings



Strategic Objective 5
Develop exceptionally skilful
and talented people

2022



100% certified
competent aviation
meteorological
personnel.



Initiatives and Action Plans



Right people,
Right roles.
Ensure staff has the
right skills and deployed
in roles where they
add the highest value.



Continue development
and improvement
in human resources.



3 partnerships
established to
supplement capacity
building.



Develop and
implement Nowcasting
Expertise Development
Programme.



2025



Strategic Objective 6



“

Optimise cost of operations and asset management

”

To optimise investment in asset operations and management, as well as enhancing efficiency and introduce cost-effective measures for the sustainability of our systems.



Maintain and optimise
operational cost



Annual audit review
on asset management

Strategic Objective 6
Optimise cost of operations
and asset management

Strategic Results

1

Highly-valued data, timely forecast and warning services.

2

Product and services used for decision-making by our users.



3

A robust and resilient observation system established and maintained.



4

Weather and climate information available through different media communication platforms.



FUTURE OUTLOOK ROADMAP

2021

- Replacement of Automatic Weather Observation Systems at Brunei International Airport.



2022

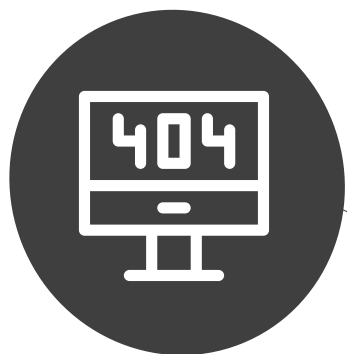
- State-of-the-art weather radar.
- Certification and compliance to ISO 9001:2015.
- 100% certified competent aviation meteorological personnel.





2023

- 24-hour weather service.
- Upgraded National Automatic Weather Stations.



2024

- Less than 10% in meteorological systems downtime.

2025

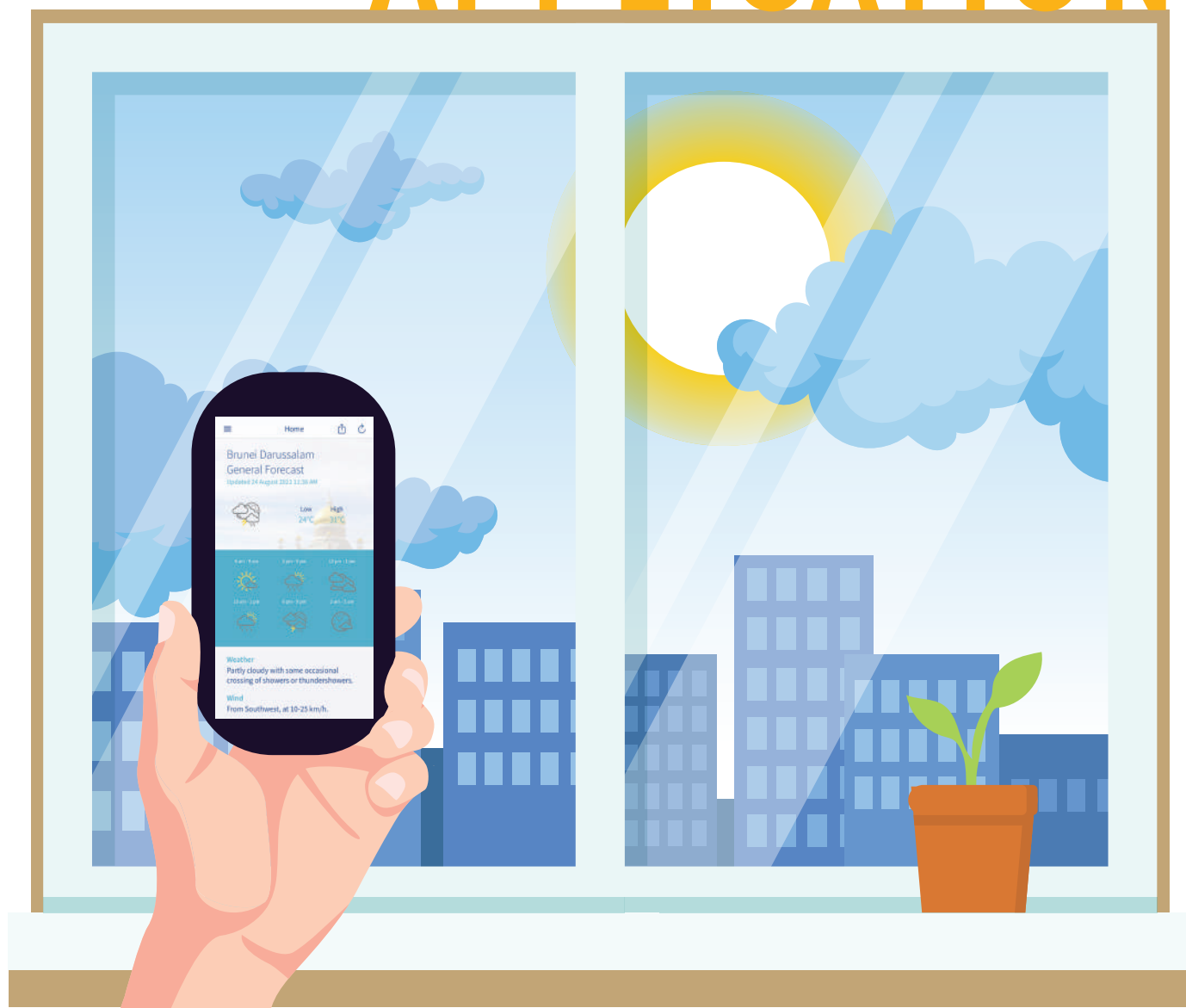
- More than 90% level of user satisfaction.
- More than 80% accuracy in aviation warnings.



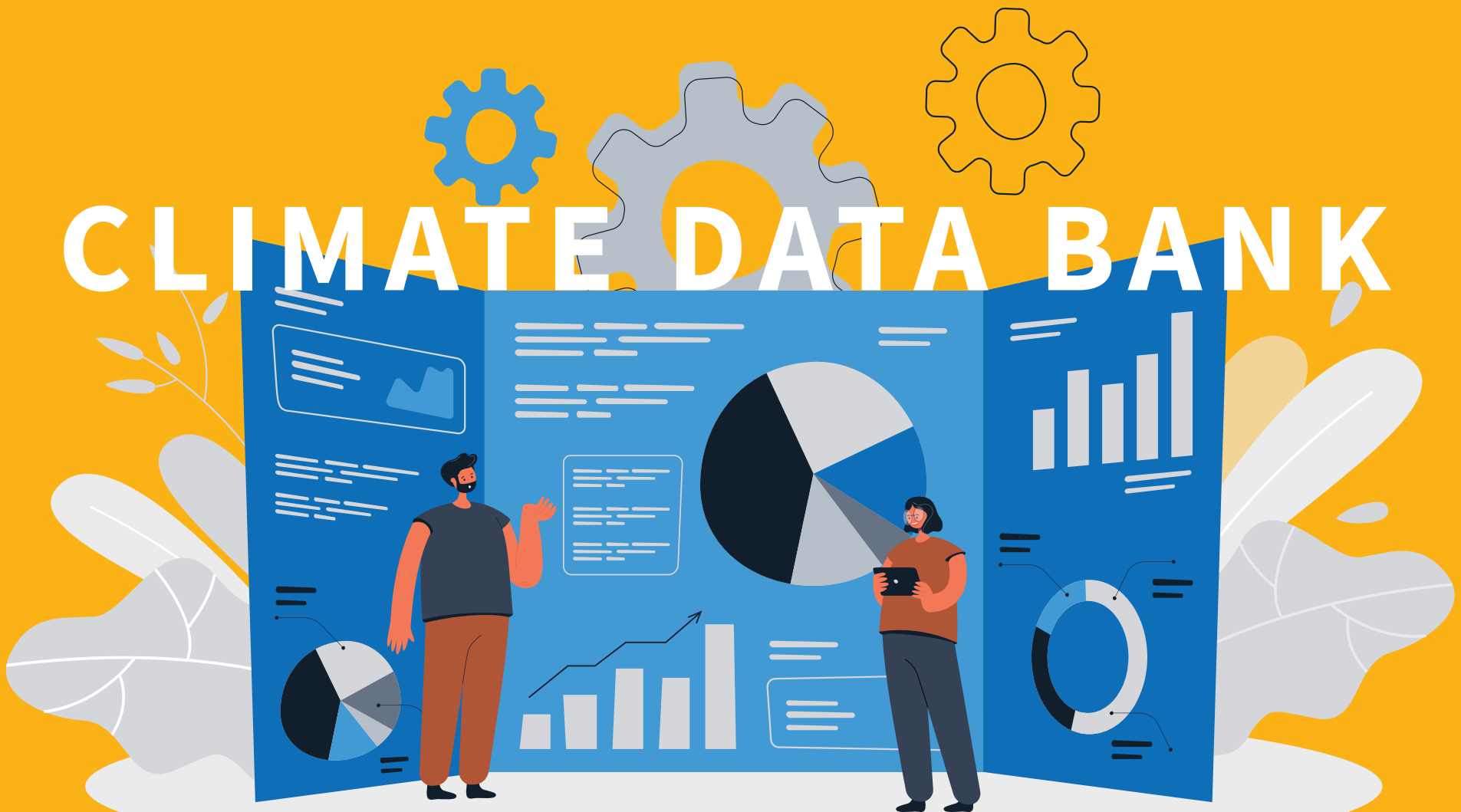
- 100% of services and products converted into digital form.
- 3 partnerships established to supplement capacity building.



WEATHER MOBILE APPLICATION



CLIMATE DATA BANK



BDMD TOWARDS 2025

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