
MALAYSIAN BIOECONOMY DEVELOPMENT CORPORATION SDN BHD

OPPORTUNITIES IN BIOTECHNOLOGY IN MALAYSIA

Session 2 : Bioeconomy Action For Sustainability

3 APRIL 2023

KEY ROLES & STAKEHOLDERS

Bioeconomy Corporation is entrusted to drive the National Biotechnology Policy 2.0 agendas focusing on accelerating towards a bio-innovation nation for wealth creation, societal well-being and enhancing sustainable development



BIOECONOMY CORPORATION'S STRATEGIES



01

INTENSIFY DDI & FDI TO BUILD CRITICAL MASS FOR BIOTECHNOLOGY/BIO-BASED INDUSTRIES

02

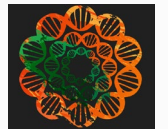
NURTURE AND ACCELERATE GROWTH FOR BIOTECHNOLOGY / BIO-BASED COMPANIES

03

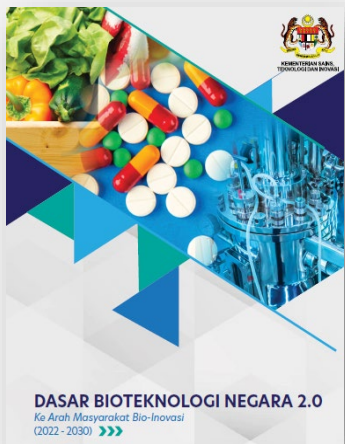
IMPROVE INDUSTRY ECOSYSTEM

04

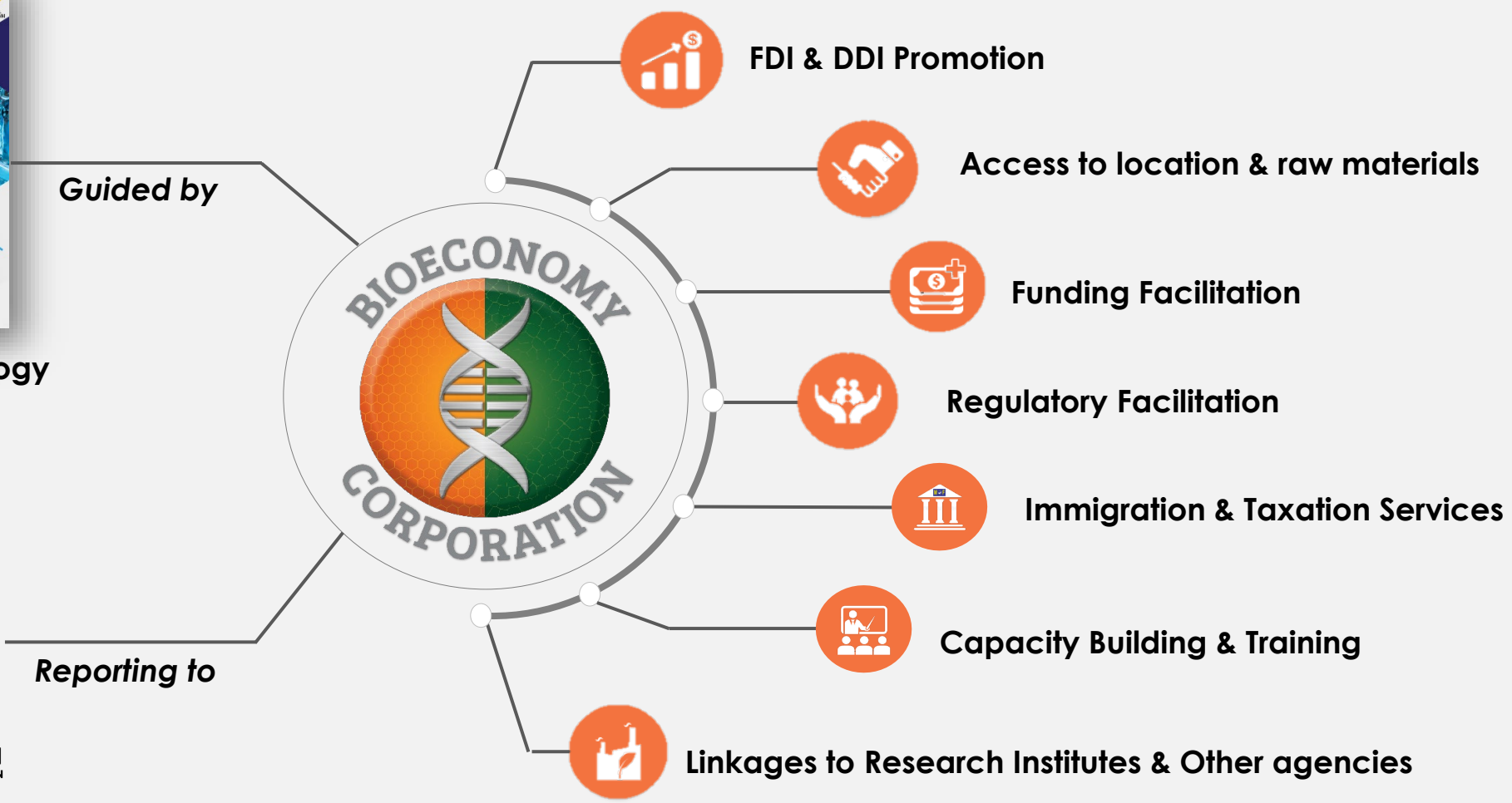
ENHANCING COLLABORATION WITH THE INDUSTRY-RESEARCH INSTITUTION & STAKEHOLDERS



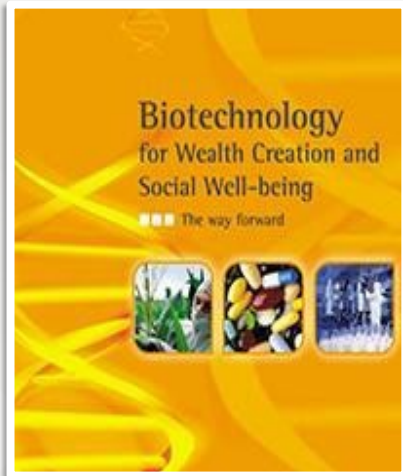
Organization Role & Facilitation



National Biotechnology
Policy 2.0



NATIONAL BIOTECHNOLOGY POLICY



In 2005, the National Biotechnology Policy (NBP) was launched as “a comprehensive and coordinated approach for the advancement of biotechnology as a strategic technology in the development of the economy” (Source: RMK9Scorecard)

As part of the Government’s commitment in the NBP (Thrust 9), it established a dedicated lead agency - **Malaysian Bioeconomy Development Corporation** to lead the development of the biotechnology industry

[IMPLEMENTATION PERIOD 2005 – 2020]



The National Biotechnology Policy (NBP) 2.0 is a continuation from previous NBP (launched on 12 September 2022) — Accelerating towards a bio-innovation nation for wealth creation, societal well-being and enhancing sustainable development

Malaysian Bioeconomy Development Corporation continue to lead the development and commercialisation of the biotechnology industry

[IMPLEMENTATION PERIOD 2022 – 2030]

KEY MILESTONE

National Biotech Policy & Bioeconomy Corporation



2005

National Biotech Policy
(Malaysian Biotechnology
Development Corporation)

Lead Development Agency for bio-based
sector and to ensure implementation of
biotechnology initiatives



2016

**Rebrand to Malaysian Bioeconomy
Development Corporation**

to cover all sectors of bioeconomy



2022-2030

National Biotech Policy 2.0

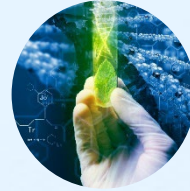
A comprehensive strategy that seeks to leverage
biotechnology to drive economic growth and
promote sustainability in the country



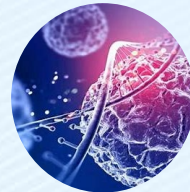
NBP 2.0 THREE MAIN SECTORS



NBP 2.0
Towards a bio-innovation society
(2022-2030)



**Biotechnology in
Agriculture and Food
Security**



**Biotechnology in Healthcare
and Well-being**



**Biotechnology in Industrial
and Circular Economy**

5 FLAGSHIPS PROGRAMS AND FUTURE TECHNOLOGIES

Biotechnology in Agriculture and Food Security



Sustainable production system for future assurance
Food ecosystem for the future and high-value products

Biotechnology in Healthcare and Well-being



Use of halal botanical medicine and natural remedies
Use of biologics, omics technology and targeted therapy

Biotechnology in Industrial and Circular Economy



Industrial biotechnology for circular economy

NBP 2.0 POLICY TARGETS

1

Biotechnology Industry

5% of the country's GDP contributed by biotechnology companies

2

3 unicorns from the biotechnology companies

3

30% of BioNexus companies at the global level and **70%** of BioNexus companies locally

4

Biotechnology Talent

80% of biotechnology graduates recognized through the micro-credentials program and **20% of biotechnology graduates** in the postgraduate program (MSc dan PhD) specializing in biotechnology based on the 10-10 MySTIE framework

5

The Importance of Research

Empowerment of **world-class biotechnology institutes** in aspects of:

- Research and Publication
- Prominent Scientist Researchers
- High-tech Platforms for the Scientific Community

IMPROVEMENT OF NBP2.0

National Biotechnology Policy 2005-2020

1. Phases of implementation:
 - I. Phase 1: Capacity building (2005-2010)
 - II. Phase 2: Science to business (2011-2015)
 - III. Phase 3: Global level of business (2016-2020)
2. Emphasis on public sector in biotechnology.
3. Focusing on the development needs of researchers and professionals in biotechnology.
4. Focuses in traditional biotechnology with specific action plan.
5. The governance structure focused on biotechnology only.

National Biotechnology Policy 2.0

1. Policy implementation is done through a cyclical approach where implementation and Policy Steps in all strategic cores are carried out simultaneously.
2. Emphasizing the importance of industry-driven financing.
3. Underlines the need to develop specialized talent in biotechnology and the creation of bio-innovation entrepreneurs.
4. Areas of focus that have flagship programs and future technologies that connect the circular economy.
5. A governance structure that integrates biotechnology with various other fields of technology.

BIONEXUS STATUS

BIONEXUS STATUS PROGRAMME – BACKGROUND



- A recognition awarded by the Malaysian Government through Bioeconomy Corporation.
- Awarded to qualified companies undertaking value-added biotechnology activities;
- Comes with a set of incentives and privileges contained within the BioNexus Bill of Guarantees



AGBIOTECH

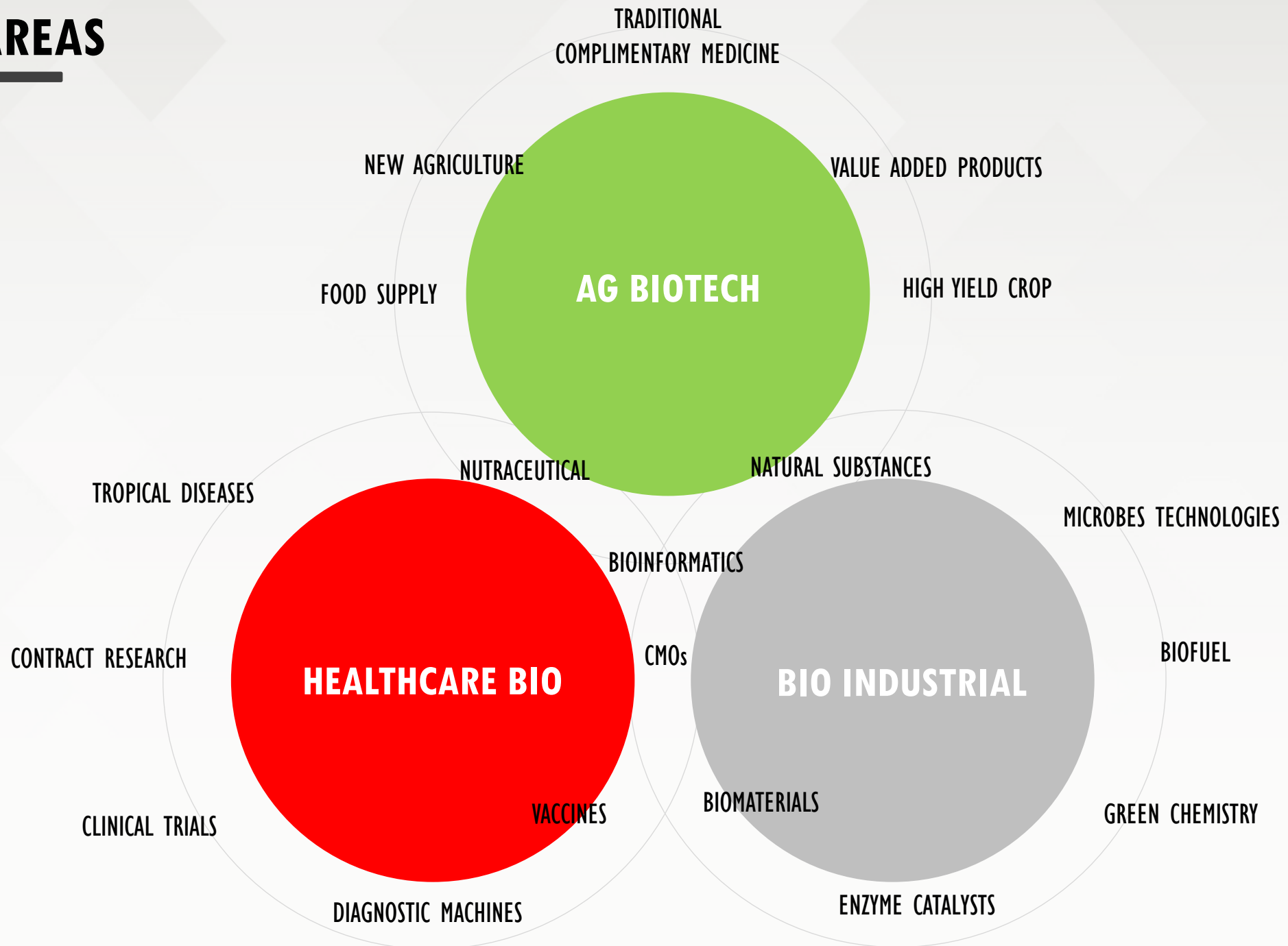


HEALTHCARE BIO



BIOINDUSTRIAL

FOCUS AREAS



BILLS OF GUARANTEE (BOG)



Freedom of **ownership**



Freedom to **source funds** globally



Freedom to bring in **knowledge workers**



Eligibility for **BioNexus Status incentives**



Facilitation of international accreditation and standards

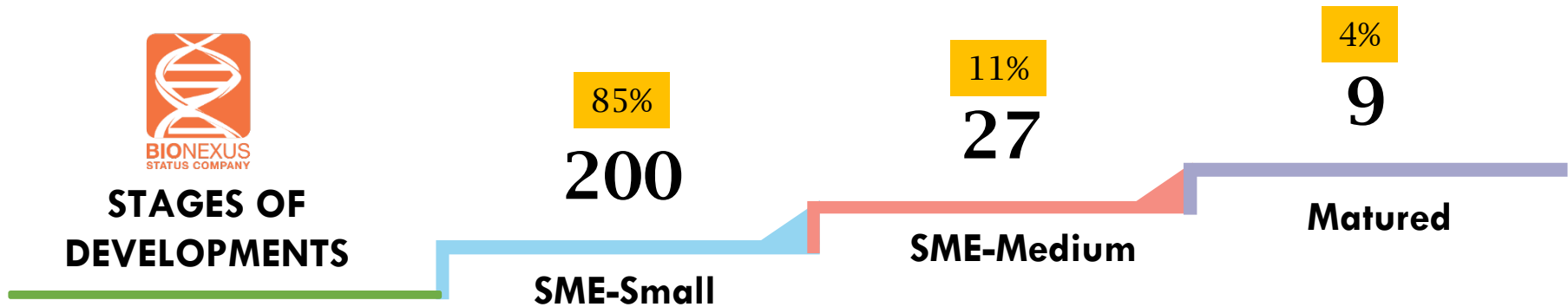
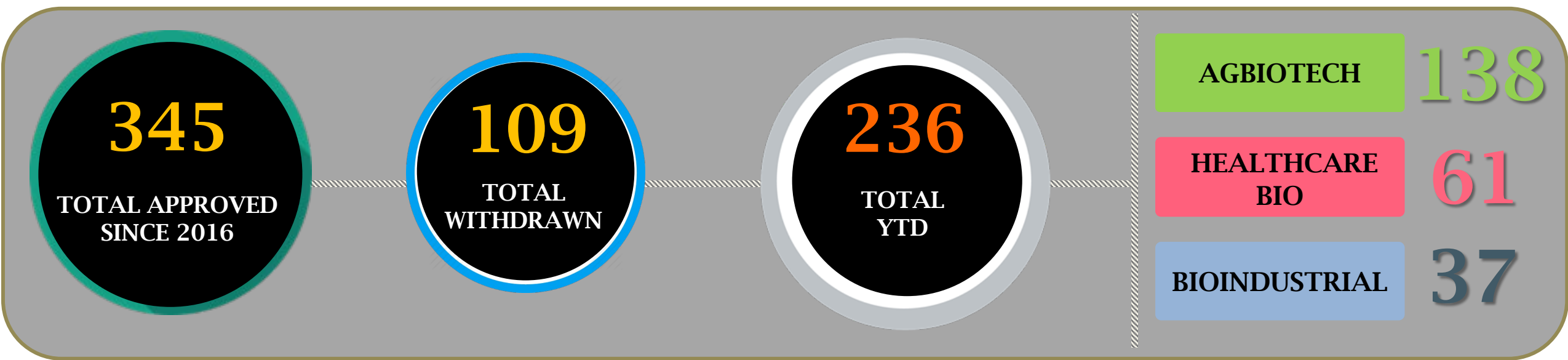


Access to BioNexus Partners Program (BNP) for **shared laboratories** and other facilities



BIONEXUS STATUS COMPANIES

as at 31 Dec 2022



PUBLIC LISTED COMPANY

1 Listed BNX status company:

ACE Market, KLSE



15 BNX status company with listed holding company:

Main Board, KLSE



BNX company :

QL Agrobio Sdn Bhd



BNX company :

1. Genting Green Tech Sdn Bhd

2. ACGT Sdn Bhd



BNX company :

IOI Palm Biotech Sdn Bhd



BNX company :

Yenher Biotech Sdn Bhd

Taiwan Stock Exchange



BNX company :

All Cosmos Industries Sdn Bhd

ACE Market, KLSE



BNX company :

Bioalpha R&D Sdn Bhd



BNX company :

Sunzen Life Sciences Sdn Bhd



BNX company :

Nova Laboratories Sdn Bhd

Australian Securities Exchange



BNX company :

Holista Biotech Sdn Bhd

Hong Kong Stock Exchange



BNX company :

Ritamix Sdn Bhd

AIM Market, London



BNX company :

Bion Sdn Bhd

Singapore Exchange



BNX company :

Stemlife Bhd

New York Stock Exchange



BNX company :

IQVIA RDS Malaysia Sdn Bhd



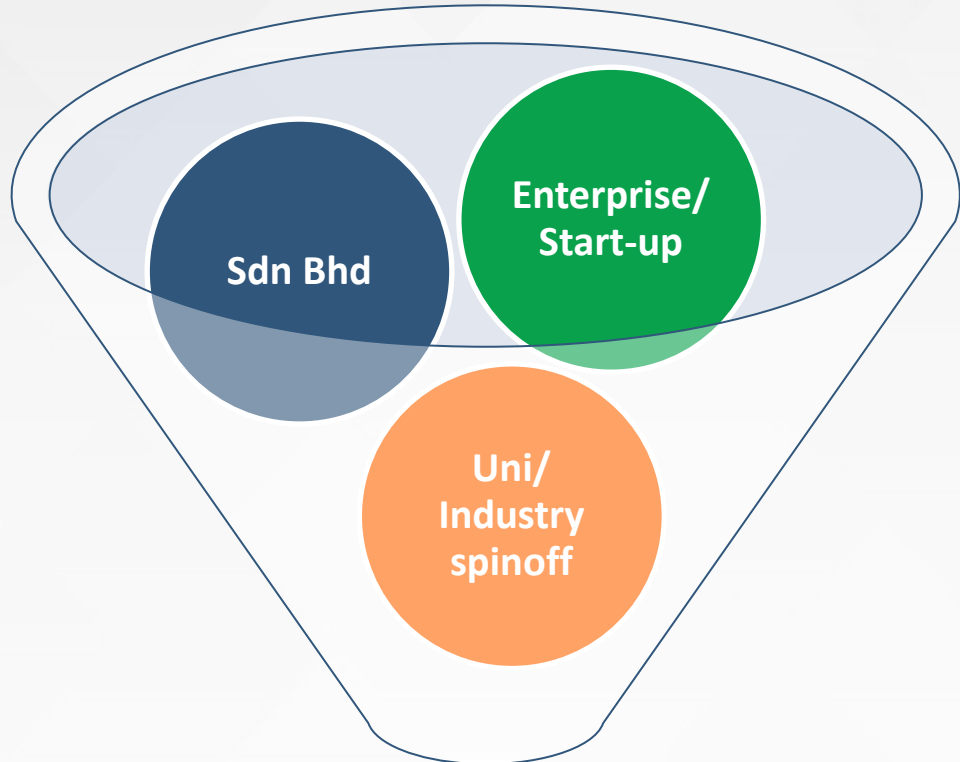
BNX company :

DNA Laboratories Sdn Bhd

BIO-BASED ACCELERATOR (BBA)

BIO-BASED ACCELERATOR PROGRAMME (BBA)

INTRODUCTION & WHO CAN APPLY?



Legally-registered entity
Has full-time employees
Bio-based tech adoption
Application fee paid

**BIO-BASED
ACCELERATOR
COMPANY**

❑ A **guidance programme** for bio-based companies that serves as a stepping stone to obtain BioNexus status / other incentives.

❑ Focus Areas:



Agricultural



Healthcare



Industrial

❑ The Programme intends to identify gaps & provide structured facilitations, knowledge transfer & trainings.



**Infuse Science,
Technology &
Automation**



**Regulatory
Compliance &
Certification of
Products/Services**



**Financial &
Funding
Opportunities**

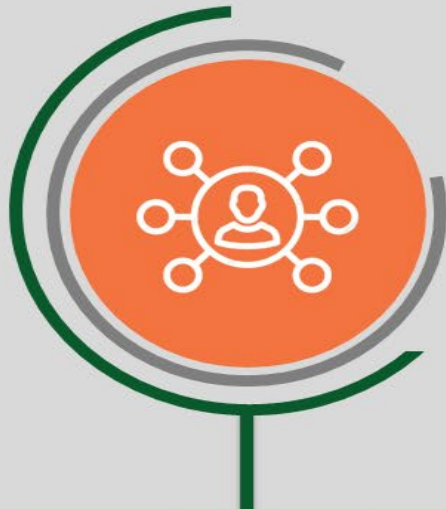


Market Access

BIO-BASED ACCELERATOR PROGRAMME (BBA)

PRIVILEGES

BIO-BASED ACCELERATOR PRIVILEGES



Receive structured knowledge-transfer, training, pitching and product readiness sessions with experts



Access to participate in selected training / development programmes



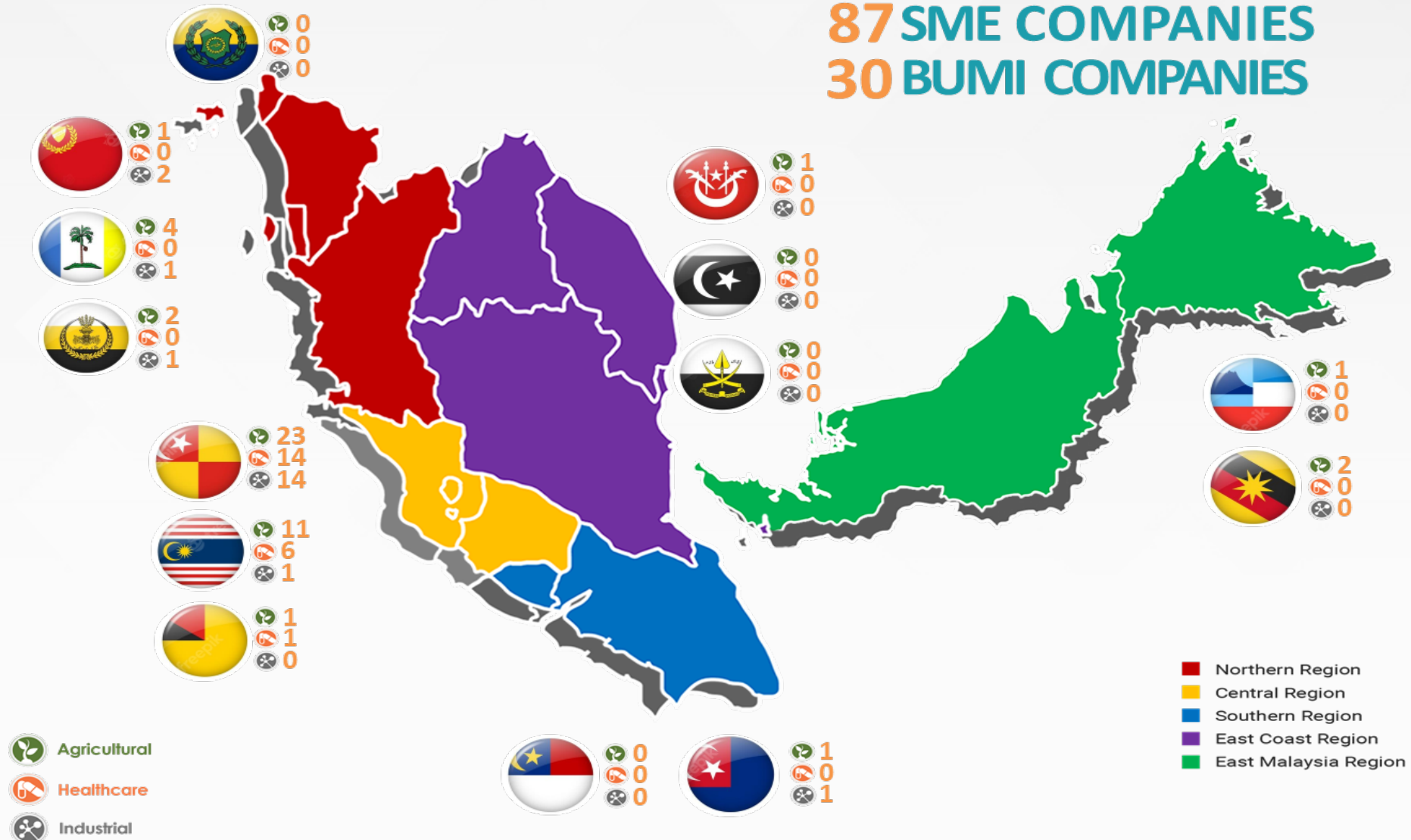
Facilitation towards obtaining BioNexus Status which comes with Tax incentives for up to 10 years

BIO-BASED ACCELERATOR PROGRAMME (BBA)

BBA COMPANIES BY STATES



88 COMPANIES
87 SME COMPANIES
30 BUMI COMPANIES



AGRO-BASED VENTURE FUND (AGVF)

FUNDING - AGRO-BASED VENTURE FUND

AGVF Programme



Agro-based Venture Fund Programme (AGVF) is essentially an Equity Funding Programme developed to address the funding needs of eligible Early Stage Companies, SMEs and Pre-Initial Public Offering Exercises.

OBJECTIVES :

To invest and support bio-based companies' activities – working capital, expansion project, refinance debt

TARGET RECIPIENTS: early Stage Companies; SME Companies, pre-IPO companies

INVESTMENT PERIOD: 3 years with funding quantum of RM500k RM8mil per company

SMEs DEVELOPMENT

DEVELOPMENT PROGRAMMES FOR ENTREPRENEURS AND SMEs

1. PRODUCT DEVELOPMENT PROGRAMME

To enhance entrepreneurs & SMEs products into premium and innovative products:



Product
formulation



Lab analysis



Product
improvement



Regulatory
services

2. CERTIFICATION PROGRAMME

Create awareness on the importance and benefits for SME companies on certifications:

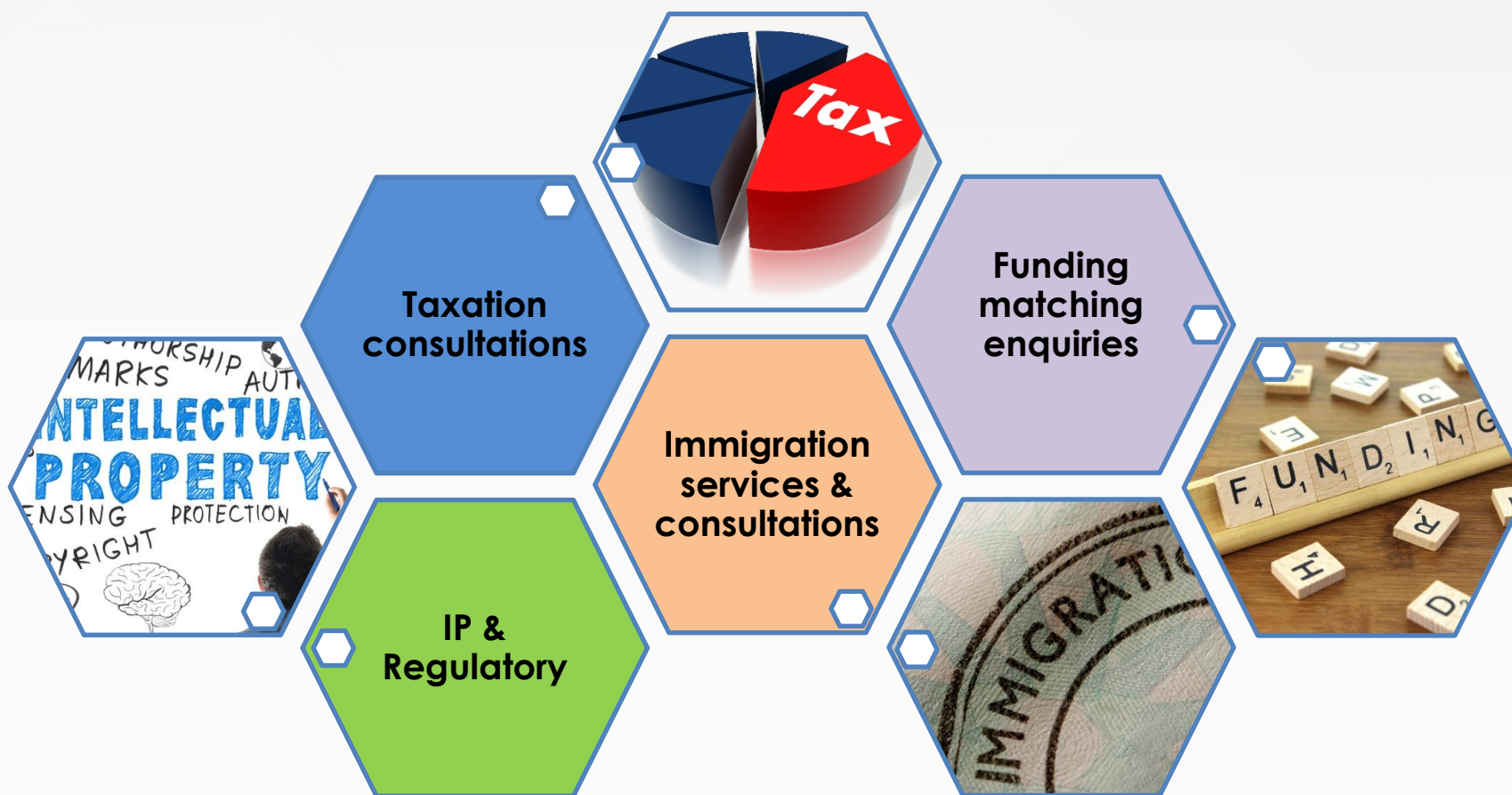


3. LAB TESTED PROGRAMME



- To boost consumers' confidence by encouraging local cosmetic & personal care manufacturers' products to undergo laboratory testing as specified by relevant authorities.
- Once passed, special logo ("Lab Tested") will be permitted to be printed on product label to certify that product is free from prohibited substances (heavy metals & microbial contaminations) & safe to use.

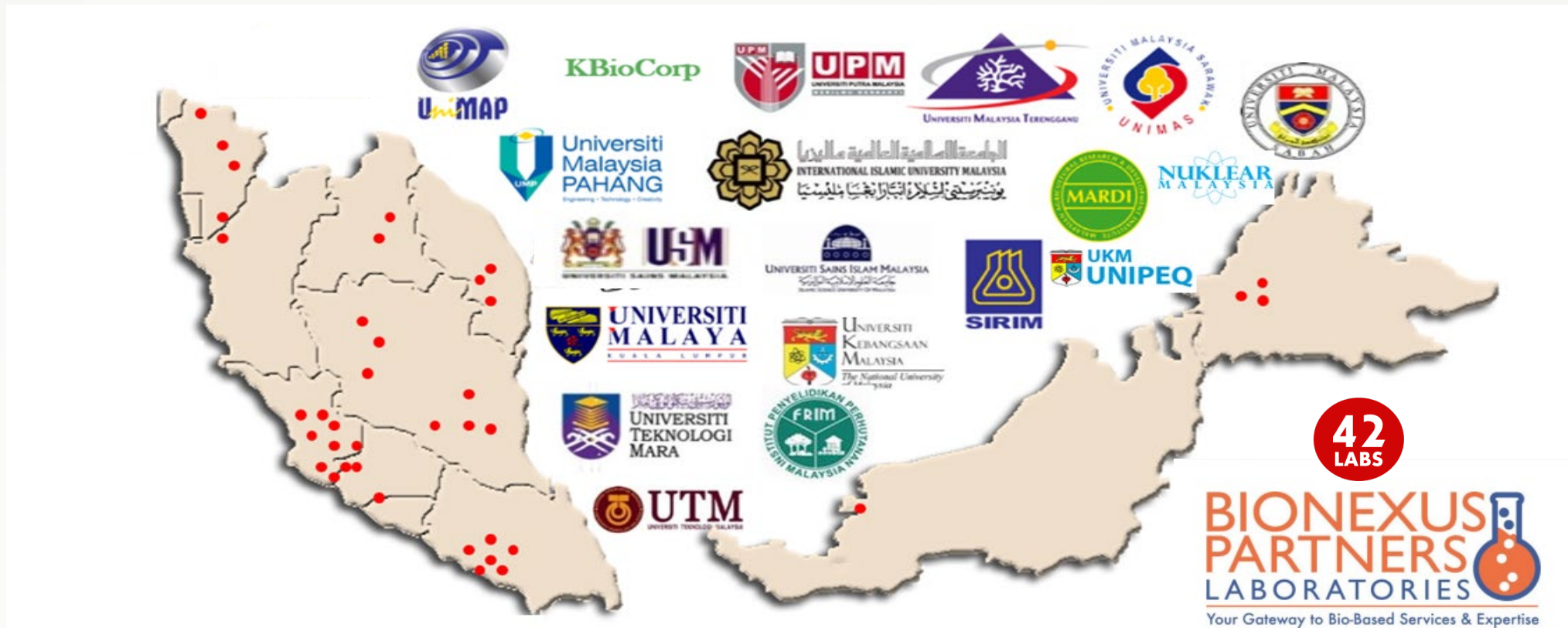
One-stop-centre for provision of advisory and facilitation services to BNX & BBA companies, entrepreneurs and startups in matters related to:-



BIONEXUS PARTNERS (BNP) LABORATORIES

Bioeconomy Corporation provides a network of key biotechnology facilities from universities, research institutions, centres of excellence and GLCs with access to latest technology, accredited facilities and expertise in:

- **Certified lab analyses**
- **R&D collaboration & commercialization**
- **Method & product development or improvement**
- **Consultancy services, training and pilot or field trial to bio-based industry players.**



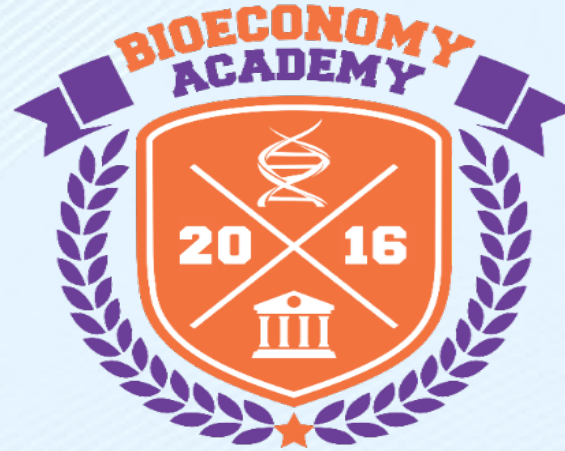


Promote Malaysian bio-based products & services

We help connect the right products to the right markets and the right buyers

- Identify gaps/needs of entrepreneurs, businesses and companies in accessing markets;
- Assist entrepreneurs, businesses and companies in accessing marketplaces through customized facilitation and assistance, smart and strategic partnerships, inter-organization collaborations, and education and awareness programmes;
- Build business connections and networks to expand the access of Malaysian entrepreneurs, businesses and companies in the domestic and global markets

BIOACADEMY



OUR VISION & MISSION IS TO BECOME THE PREMIER FACILITATOR FOR TALENT DEVELOPMENT AND ALSO TO NURTURE THE TALENT CAPABILITY WITHIN THE INDUSTRY

OBJECTIVES

DEVELOP SKILLED TALENT TO ENSURE AN ADEQUATE SUPPLY OF KNOWLEDGEABLE WORKFORCE IN THE INDUSTRY

FACILITATE INDUSTRY TALENT DEVELOPMENT & CAPACITY BUILDING

DEVELOP CAPABILITIES ACROSS THE BIOTECHNOLOGY INDUSTRY & TO FOSTER THE LIFE LONG LEARNING CULTURE

BeST 2.0 PROGRAMME



BioAgrotech & BioPharmaceutical Employability and Entrepreneurship Specialized Training (BeST 2.0)

The BeST is BACK!

BeST 2.0 is a 6-month apprenticeship programme designed to enhance the employability of graduates by equipping them with skills and knowledge of real life industry-work experience.

Join us in nurturing talents & building skills for tomorrow

COMPANY CRITERIA

Related Industry

- Biotechnology
- Bio-based
- Biopharmaceutical
- Agriculture or Agrofood

Availability

- Has future job openings/opportunities

Benefits

- BeST Secretariat provides:
- Monthly allowance for apprentices
 - Work preparatory training
 - Pre-screening of candidates

Contact us for more information:

best@bioeconomycorporation.my

+6019-200 9367

www.bioeconomycorporation.my/bloacademy

bioeconomycorporation Bioeconomy Corporation bioeconomycorp

BioAgrotech & BioPharmaceutical Employability and Entrepreneurship Specialised Training (BeST 2.0)

- The objective of BeST 2.0 programme is to enhance the employability of graduates by equipping them with skills and knowledge of real life industry-work experience in Biotechnology & Bio-based industry.
- A 6 months apprenticeship programme with industry exposure in biotech/bio-based companies
- Biotechnology companies will be the host companies
- Criteria of graduates:
 - 21 to 33 years
 - Diploma/ Bachelor Degree/Master/ Ph.D
 - Fresh graduate or work experience not exceeding two years

BeST 2.0 PROGRAMME



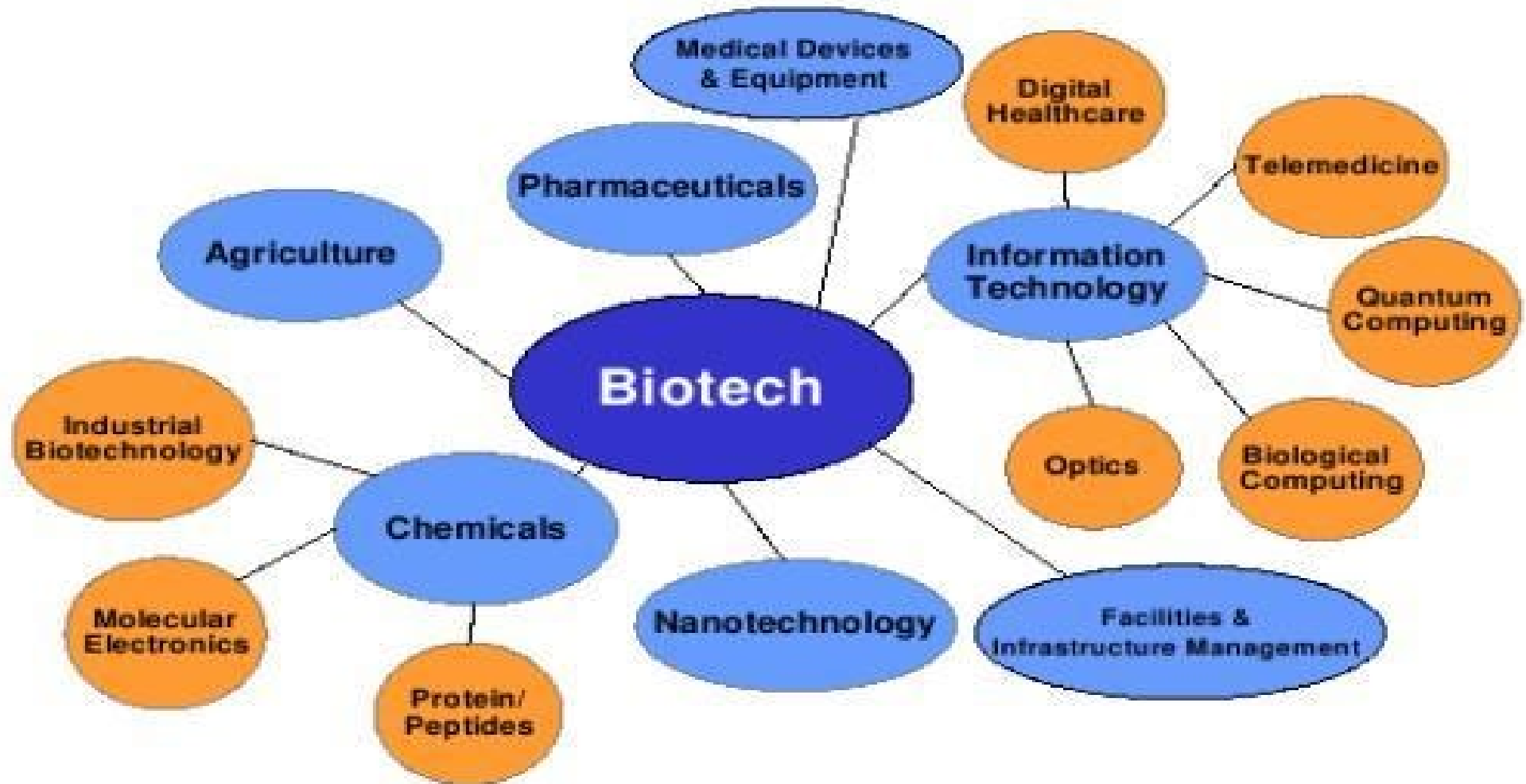
- BeST 2.0 programme is a 6 month (classroom training + on-the-job training) **“Place, Train & Hire”** programme designed to enhance the employability of graduate by equipping them with specialized skills and knowledge of real life industry-work experience at biotechnology, bio-based, agriculture/agro-food and bio-pharmaceutical based companies (“Host Companies”).
- Objective - Candidates absorbed as permanent employees by Host Company after Program completed.



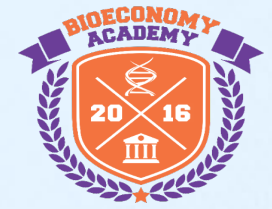
CAREERS IN BIOTECHNOLOGY

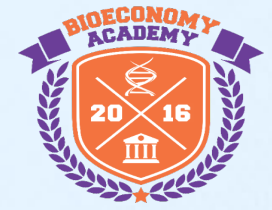
Selaras dengan
RMK-12,
kerajaan menetapkan
sasaran untuk
mencapai
**STATUS NEGARA
BERPENDAPATAN TINGGI**
pada tahun 2025.

The Biotechnology Industry



BIOCAREER FAIR





FOLLOW US (BIOECONOMY) SOCIAL MEDIA PLATFORMS FOR CAREER OPPORTUNITIES AND BIO-ENTREPRENEURSHIP PROGRAMS



BioCareer
@BioKerjaya

(Biotechnology & Bio-based Job matching platform/portal)

www.biokerjaya.my



[bioeconomycorporation](https://www.facebook.com/bioeconomycorporation)



[bioeconomycorporation](https://www.instagram.com/bioeconomycorporation)



[BioAcademy](https://www.facebook.com/BioAcademy)

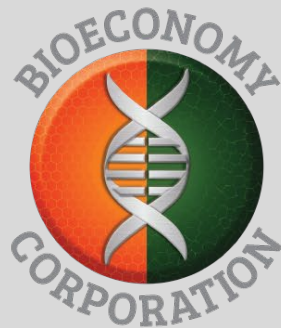


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Thank You

Nora Mohamed
Senior Vice President
Industry Support



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