



HRIDD ROADMAPS

Human Resource Development Program (HRDP) Roadmap

Overall Strategies

Human Resource

- Engagement/pre-engagement of potential/interested HRDP proponents/researchers prior to Call For Proposals (CFPs)
- Sustained support in highly specialized training to increase number of personnel equipped with highly specialized skills

R&D Technologies

- Increased exposure of R & D grantees in novel fields especially abroad that will eventually be translated to applied R&D proposals

Facilities / Services

- Strengthen the promotion of HRDP grants
- Increased engagement and grants to aid component programs that have a significant exposure and experience to novel and game-changing fields along with
- increased end expanded
- papers, presentations, services
- that will be useful nationwide

S&T Policies

- Development of guidelines to increase entitlements and benefits for the pool of researchers and personnel

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Ongoing

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10M
Call for Proposals for HRDP

Implementation of HRDP, RIEETOOL & PROSPPER

New HR Projects

- Roundtable on Next Generation Researchers
- Block Chain Training
- HRDP for Quantum
- Satellite development

15M

Call for Proposals for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

Capacity Bldg activities on:

- Quantum mechanics
- Quantum Technology
- Industry 4.0
- Blockchain
- Microelectronics IC design
- Earth observation
- Optics & photonics
- nanotechnology
- AI

2021

- Capacity building on the 6 component programs under HRDP, including the RIEETOOL, PROSPPER

18M

Call for Proposal for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Quantum mechanics
- Quantum Technology
- Satellite Comm
- Satellite Dev
- Earth Observation
- Optics & photonics
- AI

Review and updating HRDP guidelines & policy

2023

2022

- Implementation of 2 new programs for PCIEERD project personnel – PROSPPER & RIEETOOL
- Evaluated 3 PROSPPER and 4 RIEETOOL proposal
- Supported 7 Support for Conduct of Conference, with 3 ongoing proposals
- Supported 1 Research Attachment
- Supported 1 RIEETOOL project

20M

Call for Proposals for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Optics & photonics
- Nanofabrication
- Materials for energy
- Advanced materials
- AI

2024

- Supported 27 targets for the existing 6 HRDP component programs and supported 3 RIEETOOL projects and 1 PROSPPER project
- 10 researchers & project managers trained on project management
- 2 new HRDP programs supported for R&D Management

25M

Call for Proposals for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Optics & photonics
- Nanofabrication
- Materials for energy
- Advanced materials
- AI

2025

- Supported 27 targets for the existing 6 HRDP component programs and supported 3 RIEETOOL and 1 PROSPPER project
- Support 2 new programs on Block Chain, 2 next generation researchers and 2 quantum
- Supported 2 projects for HRDP Quantum

25M

Call for Proposal for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Optics & photonics
- Materials for energy
- 4D/3D printing with AI
- AI

2026

- Supported 27 targets for the existing 6 HRDP component programs and supported 3 RIEETOOL and 1 PROSPPER project

25M

Call for Proposal for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Optics & photonics
- Materials for energy
- 4D/3D printing with AI
- AI

2027

- Supported 27 targets for the existing 6 HRDP component programs and supported 3 RIEETOOL and 1 PROSPPER project

25M

Call for Proposal for HRDP

Implementation of HRDP, RIEETOOL, PROSPPER

- Optics & photonics
- Materials for energy
- 4D/3D printing with AI
- AI

2028

- Supported 27 targets for the existing 6 HRDP component programs and supported 3 RIEETOOL and 1 PROSPPER project

VISION
Sustained supply of next generation researchers on IEET in the country

Overall Outcomes

Human Resource (HRDP)

- Increased exposure of Filipino researchers to different capacity building opportunities
- Increased engagement of researchers in the in the regions
- Increased MS and PhD graduates in the industry, energy and emerging technology sectors
- Capacitate researchers on R & D management
- Identify new and emerging field that need HRD support

R&D Technologies

- Increased R & D workforce that are ready to conduct, present and extend research initiatives and S&T innovations

Facilities / Services

- Increased use of researchers on DOST and other facilities and services

S & T Policies

- New HRDP Policies and Guidelines on highly specialized trainings related to PCIEERD sectors and novel technologies acquired from research attachments and visiting experts

Institution Development Program (IDP) Roadmap

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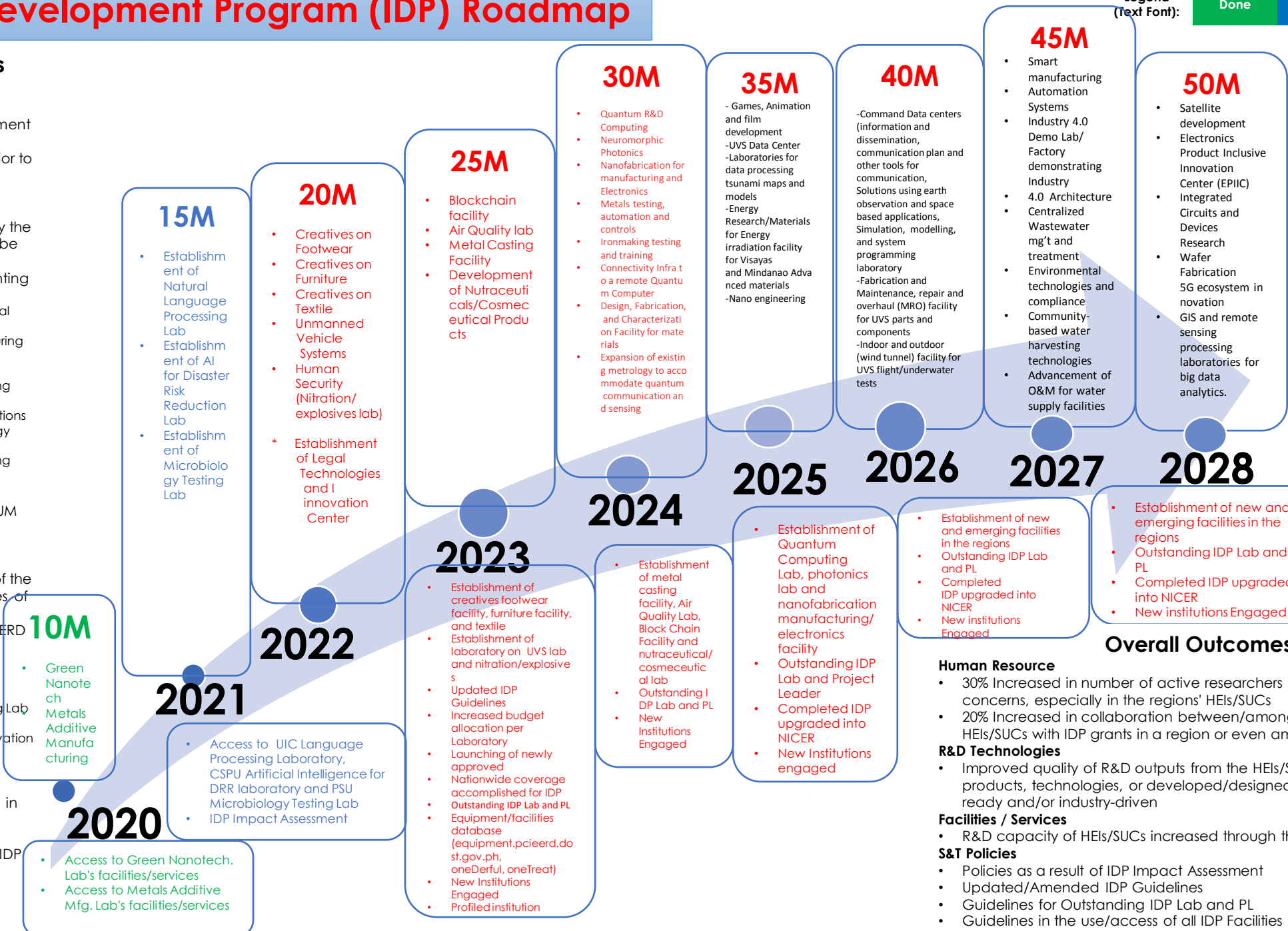
Ongoing

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Overall Strategies

- Human Resource
- Engagement/pre-engagement of potential/interested IDP proponents/researchers prior to IDP CFPs
 - Development of specialized/field-specific training/s for researchers by the different IDP labs that can be open or offered to parties beyond the IDPs' Implementing Institutions
 - Green/Environmental Nanotechnologies
 - Additive Manufacturing
 - Natural Language Processing R&D
 - Quantum Computing
 - AI Applied to DRR
 - GIS for DRR Applications
 - Applied Microbiology
 - Industry Immersion
 - Quantum Computing
- R&D Technologies
- Publications, patents and UM for IDP projects/programs
- Facilities / Services
- Establishment/upgrading of the various laboratories/facilities of HEIs/SUCs that have R&D framework aligned to PCIEERD Sectoral Concerns
 - Natural Language Processing Lab
 - AI for Disaster Lab
 - Microbiology Testing Lab
 - Legal Sector Technologies/Innovation hub/center

- S&T Policies
- Development of guidelines in the use/access of all IDP Facilities and/or Services
 - Updating/amendment of IDP Guidelines



Vision:
Established new facilities and services *in the regions* where our researchers will have sustained access.

- Overall Outcomes
- Human Resource
- 30% Increased in number of active researchers in PCIEERD sectoral concerns, especially in the regions' HEIs/SUCs
 - 20% Increased in collaboration between/among the industries and the HEIs/SUCs with IDP grants in a region or even among regions
- R&D Technologies
- Improved quality of R&D outputs from the HEIs/SUCs assisted such that products, technologies, or developed/designed systems are market-ready and/or industry-driven
- Facilities / Services
- R&D capacity of HEIs/SUCs increased through the IDP
- S&T Policies
- Policies as a result of IDP Impact Assessment
 - Updated/Amended IDP Guidelines
 - Guidelines for Outstanding IDP Lab and PL
 - Guidelines in the use/access of all IDP Facilities and/or Services

HRIDD REGIONAL CONSORTIA ROADMAP

Human Resources

- Create new programs to strengthen the collaboration, capacity and expertise in the region
- Conduct of consultation meetings, Focus Group Discussions and pre-engagements meeting
- Capacity Building on project management and expert engagement through trainings, seminars and workshops

R&D Technologies

- Open and Directed Call for Regional Research Institutions
- Provide R&D grants for new researchers and institution to increase consortia membership
- Creating New Programs for industry-academe and government collaborations
- Strengthen Promotions and disseminations of consortia projects and funding opportunities

Facilities/Services

Increase access of regional researchers availing DOST facilities and services

S & T Policies

- Review and Assess the Consortia policies and guidelines
- Alignment to DOST DPMIS submission of proposals/ evaluation
- Implementation of Evaluation Proposal Guidelines

10 M

- Regional Consortia Program**
- 16 Regional Consortia Revitalized
 - Trainings / Capacity Building
 - Prioritization of Regional R&D Agenda

- Revitalization of Regional Consortia Partners thru the conduct of Proposal writeshops and other capability Trainings
- Identified list of Priority Areas for Regional Consortia

30M

- RRI**
- CFP CY 2021 for RRI
 - CFP CY 2022 for RRI
 - Conduct of Pre-engagement and evaluation for RRI

- ExpertISE**
- Pre-Consultation Meeting with stakeholders (Academe)
 - Implementation of R&D for RRI
 - Implementation of ExpertISE to pilot Universities (UC, USTP, ParSU)

- Operations**
- Conduct of impact for Consortia Operations
 - Conduct of Training for Proposal evaluation for Consortia TWG Members
 - Initial conduct of impact assessment

2020

30M

- RRI**
- CFPCY 2023 for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Implementation of Actual Industry-Academe ExpertISE to pilot Universities (UC, USTP, ParSU)
 - Evaluation and Monitoring of implementation

- Operations**
- Conduct of impact Assessment Development of Consortia Researchers Information System
 - Conduct of road mapping session for consortia

2021

- 10 Approved Projects for RRI
- 3 identified Institutions for pilot testing of ExpertISE thru consultation meetings
- 2021 Call for Proposal – Regional Consortia Program
- Drafting of Consortia Impact assessment for consortia operations
- Development of Evaluation Criteria (rubrics)
- Conduct of TWG Members Training on proposal evaluation

40M

- RRI**
- CFP CY 2024 for RRI
 - Call for CY 2023 R&D output from ExpertISE actual immersion

- ExpertISE**
- Submissions and evaluation of results and R&D of Actual Industry-Academe ExpertISE (Call for Submission)
 - Evaluation and approval of ExpertISE R&D Proposals
 - Actual engagement of academe-industry for ExpertISE program
 - Pre-engagement for other regions

- Operations**
- Review and revisiting of Regional Consortia S&T agenda
 - Drafting of New Incentive Program for the consortia
 - regional consortia websites

2022

- 16 approved projects for RRI (atleast 1 per region)
- 3 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated

50M

- RRI**
- CFP CY 2025 for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Expansion of ExpertISE on other academe for Regional Consortia
 - ExpertISE industry-academe partnership proposal submissions and evaluation
 - Pre-engagement for new regions

- Operations**
- Prioritization of identified priority areas / s&t agenda
 - New Partnership Program (Big brother program) drafted/ implemented
 - Identification of New Programs for consortia

2023

- 16 approved projects for RRI (atleast 1 per region)
- 5 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated

50M

- RRI**
- Call for CY 2025 Call for Proposals for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Expansion of ExpertISE on academe for Regional Consortia
 - Conduct of Impact Assessment from ExpertISE Program

- Operations**
- New Partnership Program (Big brother program) drafted/ implemented

2024

- 16 approved projects for RRI (atleast 1 per region)
- 7 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated
- New program (big brother) implemented

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- RRI**
- Call for CY 2025 Call for Proposals for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Expansion of ExpertISE on academe for Regional Consortia
 - Conduct of Impact Assessment from ExpertISE Program

- Operations**
- New Partnership Program (Big brother program) drafted/ implemented

2025

- 16 approved projects for RRI (atleast 1 per region)
- 7 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated
- 16 New program (big brother) implemented (1 per region)

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- RRI**
- Call for CY 2025 Call for Proposals for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Expansion of ExpertISE on academe for Regional Consortia
 - Conduct of Impact Assessment from ExpertISE Program

- Operations**
- New Partnership Program (Big brother program) drafted/ implemented

2026

- 16 approved projects for RRI (atleast 1 per region)
- 7 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated
- 16 New program (big brother) implemented (1 per region)

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- RRI**
- Call for CY 2025 Call for Proposals for RRI
 - Conduct of Pre-engagement and evaluation for RRI New Researchers

- ExpertISE**
- Expansion of ExpertISE on academe for Regional Consortia
 - Conduct of Impact Assessment from ExpertISE Program

- Operations**
- New Partnership Program (Big brother program) drafted/ implemented

2027

- 16 approved projects for RRI (atleast 1 per region)
- 7 industry-academe actual immersion program implemented
- 16 new Institution members of the consortia will be engaged
- 16 S&T agenda submitted and evaluated
- 16 New program (big brother) implemented (1 per region)

VISION: Sustained new researchers and scientists in the region who are able to conduct research and development activities addressing regional development goals

Overall Outcomes

Human Resource (HRDP)

- Engagement of industry, academe and government agencies
- Increase in the engagement of New Researchers and Institution in the region
- Increase engagement with industry collaborations in the region
- Enhanced faculty researcher's capability on S&T
- Enhanced partnership collaborations thru R&D Initiatives

R&D Technologies

- Increase number of approved R & D of projects and programs
- Increased number of approved R & D projects with industry collaborations
- Increased new R & D researchers and institutions

Facilities/Services

Increased number of researchers availing DOST facilities and services

S & T Policies

Enhanced Policies & Guidelines of Consortia

Young Innovators Program (YIP) Roadmap

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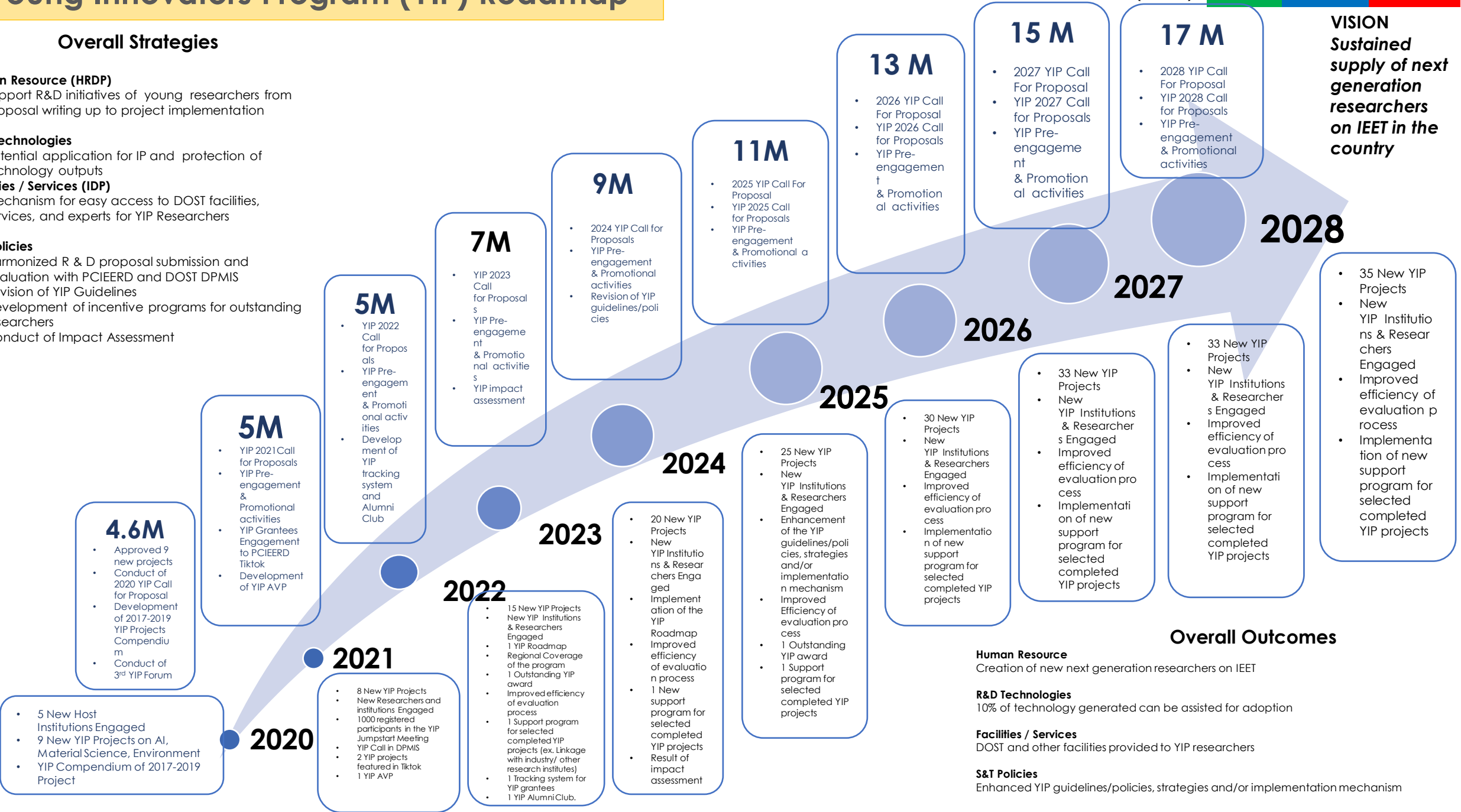
Ongoing

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Overall Strategies

- Human Resource (HRDP)**
 - Support R&D initiatives of young researchers from proposal writing up to project implementation
- R&D Technologies**
 - Potential application for IP and protection of technology outputs
- Facilities / Services (IDP)**
 - Mechanism for easy access to DOST facilities, services, and experts for YIP Researchers
- S&T Policies**
 - Harmonized R & D proposal submission and evaluation with PCIEERD and DOST DPMIS
 - Revision of YIP Guidelines
 - Development of incentive programs for outstanding researchers
 - Conduct of Impact Assessment

VISION
Sustained supply of next generation researchers on IET in the country



Balik Scientist Program (BSP) Roadmap

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Overall Strategies

- Human Resource**
- Promotional activities to encourage Filipino scientists to serve and give back to the Philippines and share their knowledge and expertise
 - Technical training of Host Institutions and R & D personnel on new technologies and techniques to accelerate their R & D
 - Engagement of Balik Scientists to various PCIEERD and BSP events
 - Engagement of Balik Scientist on PCIEERD Tiktok
 - Intensive promotion and pre-engagement activities with potential Host Institutions and Balik Scientist
 - Engagement of repatriated BS as program supervisor for PCIEERD's R&D roadmap

R&D Technologies

- Submission of R & D project/program proposal to DOST or other funding institutions
- Availability of new technologies in the R & D Institutions that can be applied for technology transfer
- Development of program for BSP R&D Grant

Facilities / Services

- Strengthening of the research capabilities of the host institutions through submission of IDP project proposal for possible funding

S&T Policies

- Conduct of BSP Impact Assessment
- Revisit the BSP entitlements and incentives
- Development of the supplemental guidelines and Achievement Award guidelines
- Development of program for BSP R&D Grant
- Support to new programs for Balik Scientist after their engagement

VISION
Sustained supply of science and technology experts from abroad who are Filipino or foreigners of Filipino descent with appropriate expertise to serve our country and accelerate economic development through research and development

2028

2027

2026

2025

2024

2023

2022

2021

2020

Overall Outcomes

- Human Resource**
- 50% increase in the number of the Balik Scientist Awardees
 - 30% increase in the number of Host Institutions assisted
 - Nationwide coverage of BSP
 - Global reach of the program

- R&D Technologies**
- New technologies from BSP experts

- Facilities / Services**
- Linkage and collaboration engaged thru BSP experts
 - Enhanced host institution's existing facilities and research capabilities

- S&T Policies**
- New policies/guidelines based on the BSP Impact Assessment
 - Amended BSP Guidelines
 - Achievement Award Guidelines
 - BSP Grants-in-Aid Guidelines
 - Policy on the available support to Balik Scientist after their engagement
 - New BSP roadmap

64M

- Materials science
- Nanotechnology
- Energy efficiency
- Transportation
- Engineering
- Analytical Chemistry
- Convergence of Tech transfer on TAPI's HIRANG Project
- Creative Industries
- Human Security (Defense S&T)
- Emerging Technologies

- 10 Balik Scientists hosted by research institutions (DLSU, UP, DMMME, MIRCDC, PNRI, UPVTC, EVSU, CSU, TAPI, AAdU, UP DCH, FEATI, NU, and USTP)
- 5 new BSP host Institutions Engaged (TAPI, NU, UPVTC, EVSU, and USTP)
- 1 Supplemental Balik Scientist Guidelines
- 1 Achievement Award Guidelines
- 3 repatriated Balik Scientists
- 59 technologies/projects assisted
- 70 local capability building/trainings
- 19 publications

43M

- Biotechnology
- Nanotechnology
- Data science
- Other areas aligned with the needs of Consortia/IDP
- Conduct of BSP Impact Assessment

62M

- Creative Industry
- Human Security
- Space Technology Applications
- Other areas aligned with the needs of R&D divisions/consortia/IDP
- Implementation of BSP Impact Assessment's results
- Engagement of repatriated BS as program supervisor for PCIEERD's R&D roadmap
- Establish new BSP Roadmap

65M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Engagement of repatriated Balik Scientist as program supervisor for PCIEERD's R&D roadmap

65M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Engagement of repatriated Balik Scientist as program supervisor for PCIEERD's R&D roadmap

65M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Support to new Balik Scientist Program (BSP) under R&D Grant

65M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Support to new Balik Scientist Program (BSP) under R&D Grant

65M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Support to new Balik Scientist Program (BSP) under R&D Grant

70M

- Balik Scientist for priority areas aligned with the needs of R&D divisions/consortia/IDP
- Support to new Balik Scientist Program (BSP) under R&D Grant

- 61 BSP engagements
- At least 1 Repatriated BS engaged as program supervisor for PCIEERD's R&D roadmap
- At least 3 BS Achievement Award
- Revised/updated MC on BSP incentives

- At least 61 BSP engagements
- At least 5 new host institutions
- At least 1 Balik Scientist engaged as program supervisor for PCIEERD's R&D roadmap
- At least 4 BS Achievement Award

- At least 58 BSP engagements
- At least 5 new host institutions
- At least 1 Balik Scientist engaged as program supervisor for PCIEERD's R&D roadmap
- At least 5 BS Achievement Award
- BSP Grants-in-Aid Guidelines

- At least 59 BSP engagements
- At least 5 new host institutions
- At least 1 Balik Scientist engaged as program supervisor for PCIEERD's R&D roadmap
- At least 5 BS Achievement Award

- At least 61 BSP engagements
- At least 5 new host institutions
- At least 1 Balik Scientist engaged as program supervisor for PCIEERD's R&D roadmap
- At least 5 BS Achievement Award

- At least 73 BSP engagements
- At least 5 new host institutions
- At least 1 Balik Scientist engaged as program supervisor for PCIEERD's R&D roadmap
- At least 5 BS Achievement Award

Good Governance through Data Science and Decision Support System (GODDESS) Roadmap

Overall Strategies

Human Resource

- Engagement/pre-engagement of potential/interested proponents/researchers with background in Data Science and Analytics prior to Call For Proposals (CFPs)
- Strengthen promotions of Data Science and Analytics researches and projects to NGAs and LGUs that can be a potential end user of data-driven management systems
- To expand GODDESS projects throughout the regional level
- Forged partnerships with the identified NGAs & LGUs

R&D Technologies

- Increased exposure of R & D grantees in novel fields especially abroad that will eventually be translated to applied R&D proposals

Facilities / Services

- To promote current and upcoming data-driven support systems and solutions that are ready for adoption of various beneficiaries.

S&T Policies

- Development of guidelines to refocus the program to accommodate and address real world gaps through Data Science and Analytics

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Ongoing

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Vision

Mainstream the use of data science and analytics in local and national government units and agencies.

- 50% increase in projects Implemented of GODDESS 2 projects
- MOAs between institutions LGUs, NGAs, MSMEs and Future Cities

