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Annex A2: PROJECT BRIEFS A,B,C,D,E,F,G,H2,I,J (Refer to R&I Roadmap):

PROJECT A: Position Paper on Philippine Political Economy and Industrial Policy: Program for Advocacy and Policy Engagement	
<p>1. Proponents:</p> <p>Prof. Temario C. Rivera Prof. Emer. Rene E. Ofreneo Prof. Jaime B. Veneracion Prof. Jose P. Tabbada Prof. Niceto Poblador Prof. Emer. Grace J. Alfonso Co-proponents: Research and Innovation Team</p>	<p>Chair, Senior Advisory Group</p> <p>Members, Senior Advisory Group</p>
<p>2. Collaborators:</p> <p>Prof. Rosalie Arcala-Hall Prof. Antoinette R. Raquiza</p>	<p>Executive Director, CIDS Fellow on Political Economy, CIDS</p>
<p>3. Executive Summary:</p> <p>The proposed position paper on Philippine industrial policy will address the following issues: How can the University help the country develop a resilient and sustainable economy that is not solely dependent on OFW remittances and call center earnings? In particular, how can the University help articulate and advance solutions to the continuing stagnation of the real sectors, manufacturing and agriculture, and the consequent informalization of numerous jobs, uneven development of the economy and the resulting mass poverty and inequality in society?</p> <p>One pathway is the strengthening of the University's leadership in national research and innovation (R&I), that is, in producing ideas and solutions to help address the multi-faceted problems and development challenges facing the economy and society. As conceived by the University R&I team, an R&I roadmap envisions the full development of proposed/existing science and technology parks, innovation hubs, R&I partnership with select LGUs, programs for the incubation and commercialization of R&I ideas and discoveries, conduct of technology training and so on.</p> <p>A component of the R&I roadmap is the advocacy for a Philippine industrial policy, with the Center for Integrative Development Studies (CIDS) and the Senior Advisory Group (SAG) working together in the promotion and advancement of this industrial policy as an economic and societal goal.</p>	
<p>4. Objectives</p> <p>4.1 General Objectives:</p> <p>The position paper aims to formulate an all-inclusive, equitable industrial or industrialization policy suited to the country, that would improve the lives of all sectors of Philippine society. It would describe how research and innovation (R&I) being pursued in UP and other Philippine universities could significantly contribute to the delivery of basic goods and services to marginalized, underserved Philippine communities. It would identify priority areas of sustainable industrial growth and development suited to</p>	



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the biogeographic regions of the country, considered in light of environmental challenges, global and ASEAN competition and geopolitical tensions.

4.2 Specific Objectives:

1. Provide the background and rationale for a new industrial policy based on existing policies and current programs for industrial development in the country.
2. Identify general and specific areas of industrial development.
3. Propose national and regional strategies and frameworks to undertake industrial development.
4. Identify key areas of research and innovation that would directly support key areas of industrial development.
5. Propose implementation plans of action to undertake university R&I-driven industrial development.
6. Formulate metrics to monitor the socio-economic progress and success of the proposed strategies, frameworks and implementation plans of action.

5.Expected Output:

A position paper will be prepared on a proposed Philippine industrial policy based on data, results and conclusions gathered through research and consultation of stakeholders. The paper will be disseminated within UP and the rest of the Philippine academic community, to government, the private sector and civil society, and the general public. UP's R&I partners in LGUs and the private sector will be made aware of this paper and the metrics proposed in the paper will be used to monitor socio-economic progress of the R&I projects.

6.Implementation Schedule/Gantt Chart: ~6 months

Activity/Month	1	2	3	4	5	6
Literature search	→					
FGDs and KI interviews		→				
Surveys		→				
Analysis and synthesis			→			
Preparation of paper				→		



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PROJECT B: Revision of UP Intellectual Property Policy of 2011, Policy on IP-Based Engagement of UP with the Private Sector, and Policy on IP-Based Engagement of UP with Government

<p>1. Proponents: Atty. Alex Ferdinand S. Fider**, Adjunct Faculty, UP College of Law Atty. Andre C. Palacios, Associate Dean, UP College of Law Under the UP Law Extension Services/Assistance program to OP and the UP System</p>	<p>Co-proponents: Gisela P. Concepcion, SAPRI Jose Emmanuel P. Reverente, IEO Alfredo E. Pascual, former UP President, former DTI Secretary overseeing IPOPHIL</p>
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2. Proposed/Prospective Collaborators:
 Atty. Susan D. Villanueva*
 Atty. Emma C. Francisco*
 Atty. Eduardo C. Escaño*
 Atty. Divina Gracia E. Pedron*
 Atty. Laarni Victoria Q. Vinas*

**UP Law Faculty IP sub-cluster chair
 *UP Law Faculty IP sub-cluster member

3. Executive Summary:

Innovative products and services that result from research and creative work (new knowledge generation) undertaken in UP have great potential to provide effective solutions to critical problems that beset Philippine society, and to spur socio-economic productivity, growth and development in all sectors, both private and public, i.e., in agriculture, fisheries, food, water, health, education, energy, materials, manufacturing, digital transformation, environmental management, etc. The Intellectual Property (IP) Policy of UP, last revised in 2011, provides the rules and guidelines for protecting the IP rights and assets of the faculty, REPS, staff, students, for discoveries, creations, inventions, and innovations made in the university. In this project, the 2011 UP IP policy document will be reviewed, updated and revised, guided by the Philippine IP Code of the IPOPHIL (Intellectual Property Office of the Philippines). The revised IP Policy of UP aims to strongly motivate the UP community to pursue the development and commercialization of innovative products and services, by providing more attractive IP-based incentives, i.e., IP sharing between the inventors and the university, IP-based negotiations with private industries and government units as potential partner, collaborator, investor or purchasing party. With industry, aside from the current mode of a licensing agreement with royalty sharing, other modes such as contract research (no IP to the researcher), outright sale of IP, and joint IP for UP-industry collaboration or open innovation, will be explored. With government entities, procurement of UP products and services will be guided by the new *Tatak Pinoy* Law and IRR. Commercialization and sale of UP's innovations will make UP's R&D relevant, useful, and beneficial to Philippine society, and it will also generate financial revenues for UP. Significant ROIs (Return on Investment) from UP's R&D funding from government, e.g., DOST, DA, DICT, UP's EIDR and ECWRG, will qualify UP researchers to receive even greater R&D funding. Importantly, a strong and relevant UP IP policy serves as the fundamental driver to sustain the productive cycling of R&D, innovation and commercialization activities, and grow UP's significant contributions of innovations to Philippine society over the long term.

4. Objectives:
 4.1. General Objectives:
 The project aims to revise the UP Intellectual Property Policy of 2011 to make it more relevant and responsive to the current progressive Philippine innovation ecosystem wherein UP-government-private



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sector engagements are strongly supported to contribute to socio-economic progress, growth and development in the country. Strong IP protection and attractive IP-based incentives of UP serve as the basis for sound policies and practices, and productive engagements, with private industries and government units.

4.2. Specific Objectives:

1. to review and revise the UP Intellectual Property (IP) Policy of 2011
2. to draw insights from IP policies and practices of select, high-performing universities and research institutions, e.g., in Thailand, other ASEAN countries, USA and Australia
3. to be guided by the Intellectual Property Code of IPOPIL
4. to identify various modes of IP-based engagement between UP innovators and the private sector or government units
5. to be guided by the new *Tatak Pinoy* Law and IRR in IP-based engagement between UP innovators and the private sector or government units.

5. Expected Output:

1. One final draft of the revised UP Intellectual Property Policy
2. One final draft of the UP policy on IP-based engagement with the private sector
3. One final draft of the UP policy on IP-based engagement with government units

6. Implementation Schedule/Gantt Chart: ~7 months

Activity/Month	1	2	3	4	5	6	7
1.request to UP Law Extension Services for assistance on IP from OP and review of 2011 UP IP Policy	→						
2.study on policies and practices of select high-performing foreign universities and research institutions on IP- and innovation-based engagements with government and industry		→					
3.review of Phil. IP Code, <i>Tatak Pinoy</i> Law and IRR			→				
4.consultations with UP internal and external stakeholders regarding UP's IP policy and practices on researcher-university IP sharing, UP's IP-based engagements with government and industry				→			
5.first drafts of the three policy documents					→		
6.consultations on the three policy documents						→	
7.final drafts of the three policy documents							→



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PROJECT C: Policy and Plan for the Establishment of UP Innovation Hubs and PEZA S&T Parks

1. Proponents:

Gisela P. Concepcion, SAPRI
Jose Emmanuel P. Reverente, IEO

Co-proponents:

Daniel C. Peckley, VP for Development
Percival Almoreo, AVPAA for R&D
Giovanni Tapang, Dean, College of Science, UPD
Lerrie Colet, Director for Innovation, College of Science, UPD

2. Collaborators:

Josephine Santiago, Professor, UP College of Law

3. Executive Summary:

The R&I Team will gather information from the UP System, UPD and other CUs required to submit an application to the DTI and PEZA for the establishment of a PEZA KIST (Knowledge and Innovation S&T) Park initially in UPD, and afterwards in different UP CUs. DTI has provided UP the requirements for the PEZA KIST Park application. Stakeholders in UP CUs will be consulted. Existing Innovation Hubs will be enhanced and sites of new Innovation Hubs will be identified. A UP policy paper will be prepared that would justify the establishment of S&T Parks and Innovation Hubs in areas of the campus adjacent to academic buildings, but also to include spaces in existing buildings to host laboratories and offices of start-up companies and innovation and plug-and-play hubs. This would be advantageous to university start-ups and innovation fellows that would benefit from close interactions with, and mentoring and advice of expert researchers in the university. Further, the PEZA approval and certification will allow start-ups, MSMEs and larger industries, both local and foreign, to locate and build facilities in the UP KIST Parks, to engage in product development for export, and in the process benefit from PEZA procurement exemptions, tax incentives and competitive compensation rates, benefit from proximity to university researchers. The UP College of Law will contribute to weaving together a policy paper on S&T Parks and Innovation Hubs that is consistent with the revised intellectual property policy and innovation policy of UP that it is also formulating.

4. Objectives:

4.1 General Objectives:

The goal is to submit an application to DTI and PEZA to establish a PEZA KIST Park in UP Diliman and to obtain approval by 2025. Subsequently, the establishment of PEZA KIST Parks in all UP CUs will also be pursued. A second goal is to formulate an internal policy with guidelines on the establishment and operation of UP Innovation Hubs in all CUs.

4.2 Specific Objectives:



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PROJECT C: Policy and Plan for the Establishment of UP Innovation Hubs and PEZA S&T Parks

1. To consult UP CU stakeholders on the establishment of Innovation Hubs and PEZA KIST Parks
2. To submit the PEZA KIST Park application of UP Diliman, and subsequently other UP CUs
3. To identify more Innovation Hub sites in all UP CUs
4. To formulate objectives, rules and guidelines for the establishment and operation of UP Innovation Hubs and PEZA KIST Parks
5. To provide metrics to monitor the operations of UP Innovation Hubs and PEZA KIST Parks

5.Expected Output:

1. Increase in innovation-oriented students and faculty, innovators, start-ups and spin-offs in UP CUs
2. Growth of industry locators (MSMEs) in UP PEZA KIST Parks
3. Growth of contractual services of UP laboratories from industry locators
4. Growth of interactions and collaborations between UP and industries

6.Implementation Schedule/Gantt Chart: ~6 months

Activity/Month	1	2	3	4	5	6
1.gathering of information on PEZA KIST Park	→					
2. consultation with UP community on PEZA KIST Parks and Innovation Hubs		→				
3. gathering of information within UP required for PEZA KIST Park			→			
4. preparation and submission o PEZA KIST Park application				→		
5. preparation of UP policy paper on PEZA KIST Parks and Innovation Hubs				→		



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PROJECT D: Establishment of UP Capital Venture Entity and Investment Fund

1. Proponents:

Jose Fernando T. Alcantara, EVP
Daniel C. Peckley, Jr., VP for Development
Abraham Rey M. Acosta, VP for Legal Affairs

Co-proponents:

Gisela P. Concepcion, SAPRI
Jose Emmanuel P. Reverente, IEO
Alfredo E. Pascual, former UP President and former DTI Secretary

2. Collaborators:

Atty. Tadeo F. Hilado, Corporate Banking and Finance, ACCRA Law Office

3. Executive Summary:

We will explore various modes and arrangements, including partnerships, for the UP System to establish and operate a UP Capital Venture Fund, Inc. or a UP Enterprise, Inc., as a corporate entity, a GOCC variant, with the sole purpose of supporting UP's most promising R&D and innovations, startup and spinoff companies. The UP Capital Venture Fund, Inc. would provide major seed funding to jumpstart and shepherd UP innovations to bring them to high TRLs, MRLs, ARLs (Technology, Market, Adoption Readiness Levels), that would make them attractive to the market of large local and foreign investors or make them competitive as a standalone company growing as a MSME and eventually securing a unique niche in the local and foreign supply chain. A significant capital investment of UP in a UP startup or spinoff company would ensure protection for UP's innovators who would not fall victim to private venture capitalists or larger investors, who would negotiate unfair financial deals, take control of the startup company, redirect the development of the products or services for unethical use, forgo critical steps or tests to cut costs, or engage in unfair management and operations practices. A UP capital investment in a UP startup company would set directions to the company to support the green economy and the SDGs, ensure that it contributes to UP's goals to help alleviate poverty and hunger, and provide employment and livelihood to more Filipinos. The UP Capital Venture Fund, Inc. would engage world-recognized technical experts without COIs as external expert reviewers to evaluate the projects and companies it would invest in. The Board of Trustees and Executive Team would be selected from among UP's most highly respected, accomplished alumni with corporate, financial, legal, scientific and technological expertise, who would be willing to serve either on a *pro bono* basis or with a reasonable cap on honoraria. A huge starting capital venture fund of P1Billion will be lobbied for in Congress. Eventually, prospective capital investors will be considered on condition that UP maintains a large majority of shares of the company and takes responsibility for charting its course. The company will take a lead role in promoting and marketing UP's innovative products and services, matching them with local and foreign investors, for developing more advanced technology and capturing larger consumer markets. All revenues generated from investments will be plowed back to the pool of investible funds. The UP Capital Venture Fund, Inc. will operate independently of the UP Board of Regents.

4. Objectives:

4.1 General Objectives:

The goal is to establish a UP investment fund to provide UP's innovators, startup and spinoff companies



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substantial seed funding to develop their innovations to high TRLs, MRLs and ARLs, making UP's innovators attractive for private investment and competitive as MSMEs. Revenues generated from the investments of the UP Capital Venture Fund, Inc. will be used to support and sustain UP innovations over the long term.

4.2 Specific Objectives:

1. explore all possible legal and corporate measures to establish and operate the UP Capital Venture Fund, Inc., with mechanisms to obtain the seed capital fund from government, to build the fund by opening it up to reputable partner investors, to invest in UP's innovations, and to maximize secure revenues for reinvestment
2. explore recent government exemptions and incentives that support investment in innovation, e.g., procurement, taxes, etc.
3. consult UP innovators regarding the benefits of establishing a UP funding company
4. formulate guidelines and principles of structural organization, decision-making, operations and management of the company
5. prepare documents to establish the UP Capital Venture Fund, Inc.

5.Expected Output:

1. establishment of The UP Capital Venture Fund, Inc.
2. approval and acquisition of seed funding
3. creation of Board of Trustees and Executive Team
4. start of operations

6.Implementation Schedule and Gantt Chart: ~6 months

Activity /Month	1	2	3	4	5	6
1.explore legal and corporate measures to establish UPCVFI	→					
2.explore government exemptions and incentives for investments in innovation			→			
3.consult UP innovators		→				
4.formulate guidelines and principles for UPCVFI			→			
5.prepare documents to establish UPCVFI				→		



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PROJECT E: Social Innovations of UP in LGUs in collaboration with SUCs/LUCs, MSMEs and NGOs

E1: Quezon City, Tarlac and Pampanga LGUs

E2: Agusan del Norte (Butuan), Ilocos Norte, Leyte LGUs

1. Proponents:

Gisela P. Concepcion
Jose Emmanuel Reverent

Co-proponents:

Mahar A. Lagmay

SAPRI
IEO

Executive Director, Resilience Institute

2. Collaborators:

Chancellors of relevant CUs with close interactions with specified LGUs and SUC

Leaders of FP6 on Active and Collaborative Partnerships

Leaders of FP5 on Archipelagic Oceanic Virtual University for coastal LGUs

National Scientist Lourdes J. Cruz

Chair, Future Earth Philippines program

3. Executive Summary:

A major thrust of UP's Flagship Program 3 on Research and Innovation is LGU-based holistic social innovation that would significantly contribute to improving the quality of human life and the environment in LGU communities. UP's innovations would yield a social return-on-investment or S-ROI measured by their positive social impact on communities, aside from a modest financial return-on-investment that would ensure the sustainable production and use of UP's innovations. With the passage of the *Tatak Pinoy* Law, UP would offer for sale to LGUs and their supported MSMEs, its products and services at modest prices. UP would offer holistic innovative solutions to all types of problems relating to the delivery of basic goods and services, especially in underserved communities in the regions. UP would also propose areas of growth and development that are suitable to the partner LGUs and MSMEs i.e., making use of the rich local natural, cultural and human resources, supporting the growth of MSMEs such as the food and agro-fisheries sector. UP would select as its partners the LGUs with good political leaders who appreciate the value of UP's S&T- and other knowledge-based interventions to help develop sustainable circular economies working closely responsible MSMEs. The UP R&I Team will collaborate with the UP Resilience Institute, leaders of FP6 on Active and Collaborative Partnerships and FP5 on the Archipelagic Oceanic Virtual University (AOVU) for coastal communities, and its NGO partner Future Earth Philippines. The identified priority LGUs that UP would partner with are the following: Quezon City, Pampanga, Tarlac, Ilocos Norte, Leyte, and Butuan (Agusan del Norte). UP will also connect with key MSMEs in these LGUs. The selected partner LGUs are categorized as urban, urban-rural, rural, and also as coastal, inland, highland or lowland. Social innovations undertaken in these types of LGUs would serve as iterative models for social innovation in other similar LGUs.

4. Objectives::

4.1 General Objectives:



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This project aims to help selected LGUs achieve significant positive social progress through a holistic social innovation suited to each LGU that UP and collaborating SUCs would offer to design and implement. These LGUs would serve as successful models for other LGUs to follow and to formulate and implement their own social innovation programs.

4 Specific Objectives:

1. Identify LGUs known for good governance and for openness to train for and implement S&T-, knowledge-driven programs.
2. Inquire from LGU, SUC, MSME and NGO leaders about the specific needs and problems of their communities.
3. Gather data and information on the specific problems to be solved and the potential growth and development areas to be pursued based on the biogeographic resources and human culture in the locality.
4. Present UP's innovation portfolio co-created with the collaborating SUC suited to the LGU, covering all aspects of community life, i.e., education, governance, poverty alleviation and livelihood, food, water, energy, materials, health, DRRM, cyber and digital connectivity, etc.
5. Implement the use of innovation products and services with a beta testing, field or clinical trial as a research component to gather data on usefulness and social impact of the innovations, thus also contributing commercial value to the innovations.
6. Monitor the implementation of the programs in cooperation with the LGU and SUC leaders.
7. Promote successful innovations for implementation in other LGUs.

5.Expected Output:

1. LGUs with good trend towards reduced poverty and hunger, increased livelihood, improved governance, education, overall quality of life and resilience
2. Increased number of LGU and SUC leaders in various aspects of social innovation

6.Implementation Schedule, Gantt Chart:

Activity/Year	1	2	3						
1.Hold consultations and discussions	→		→		→				
2.Conduct surveys and FDGs	→		→		→				
3.Formulate and present SI programs		→		→		→			
4.Identify UP CU and SUC leaders		→		→		→			
5.Develop SI training courses and tools, identify takers and partners			→		→		→		
6.Enter into agreements and implement SI program			→		→		→		
7.Develop meics and monitor progress of SI program				→		→		→	
8.Develop publicity materials to showcase SI successes				→		→		→	



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PROJECT F: Brainstorming Meetings on TTBD0 Priorities and Preparation of Presentations of UP's Cross-cutting Innovation Products and Services to Government Agencies and the Private Sector

F1: Education

F2: Food, Water, Energy, Health, Materials, Cyber (IoT, DS, AI), DRRM, etc.

1. Proponents:

Gisela P. Concepcion, SAPRI

Jose Emmanuel P. Reverente, IEO

Luis G. Sison, TTBD0 Director

Co-proponent:

Angelica Abad-Bilan, SAP, OP

2. Collaborators:

TTBD0 Directors of CUs

3. Executive Summary:

The R&I Team would support the plan of President Jimenez to host a testimonial event to honor the new Department of Education Secretary, Sen. Juan Edgardo "Sonny" Angara. We would present to Sec. Angara UP's proposed education strategies, teaching materials and content, updated curricula and pedagogical methods, and arrange brainstorming meetings with DepEd leaders soon after. DepEd could adopt UP's proposals to significantly improve education at the primary and secondary levels (K-12), thus raising the international numeracy and literacy test scores of Filipino children and youth. Several of these proposals are among UP's top innovation products, e.g., VISSER, and services, e.g., NISMED's "teach the teachers" training program. We would invite UP education leaders and innovators to the reception for Sec. Angara and to the brainstorming gatherings; also invite other education leaders who are UP alumni and not UP alumni whom we know have dedicated their lives to helping improve the education of Filipino children and youth.

In preparation for visits to LGUs and private companies to present UP's innovations, the R&I Team will hold a series of brainstorming and on-boarding meetings with UP's innovators and innovation fellows in the CUs, to match UP's innovations in the food, water, energy, health, materials, cyber (IoT, DS, AI), DRRM sectors, with the specific needs and interests of LGUs and private companies. Innovators' Teams will be created, business plans will be prepared, and team members will be coached to make presentations at meetings with LGU leaders and private companies.

4. Objectives:

4.1 General Objectives:

Portfolios of UP's innovations will be prepared for presentation to industry, national and regional government and LGU partners. Innovation products and services will be selected to suit the interests and needs of prospective partners.

4.2 Specific Objectives:

1. To review and evaluate UP's priority innovation products and services for the purpose of matching them with the interests and needs of prospective partners

2. To present UP's selected innovations to industries that would yield a good commercial return on investment (C-ROI)



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3. To present UP's selected innovations to government agencies and LGUs that would yield positive social public impact or a social return on investment (S-ROI)
4. To propose to LGUs a holistic approach to social innovation making use of UP's innovations in food, energy, health, materials, environmental management, waste recycling, cyber and digital technology.

5. Expected Output:

1. Increase in UP contracts of sales of innovation products
2. Increase in UP contracts of services
3. Increase in UP-industry partnerships to develop new products
4. Increase in social innovation projects

6. Implementation Schedule/Gantt Chart: ~6 months

F1: 3 months

Activity/Month	1	2	3
Preparation of portfolio of education innovations	→		
Presentation to Sec. Angara	→		
Meetings with DepEd leaders		→	

F2: 6 months

Activity/Month	1	2	3	4	5	6
Preparation of fact sheets/executive summaries of top innovations	→					
Market intelligence research and matching of innovations with interests and needs	→					
Preparation of innovation briefs and portfolios		→				
Presentation to industries and LGUs			→			
Follow-through and negotiations				→		



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<p>Project G: Visits to the Potential Private Sector Partners (MSME & Big Industry Leaders) to Present UP's Innovations</p>	
<p>1. Proponents: Gisela P. Concepcion, SAPRI Jose Emmanuel P. Reverente, IEO Luis G. Sison, TTBD0 Director</p>	<p>Co-proponents: UP CU officials, faculty and consultants in contact with specific private industries, MSMEs Innovators relevant to the interests of the specific private industries, MSMEs</p>
<p>2. Collaborators: UP alumni in target private industries</p>	
<p>3.Executive Summary:</p> <p>The R&I Team will prepare a portfolio of UP's mature innovations that only UP can offer, consisting of sustainable, high-quality prototype products and high-level analytical (materials and data), creative and other services. The R&I Team will arrange visits to selected, first-line targeted companies to present UP's portfolios of innovations, i.e., to large industries and MSMEs, based on its market assessment and scoping studies of the business needs and interests of these targeted industry partners. We will bring UP's relevant innovators to present and pitch their innovations at these meetings. We will discuss with the companies the areas of business development that UP can help with. We will offer to contribute to expanding and improving their products, improving the efficiency of their production processes, including training some of their workforce. UP will offer to enter into equitable, progressive agreements with these potential business partners, ranging from contract of research, contract of services, to joint product development and training, outright sale of UP's products, and licensing with royalty payments. All agreements will be pursued with appropriate protection of the intellectual property of UP and UP innovators, and "open innovation" systems to accelerate good, high quality product development and commercialization will also be explored.</p>	
<p>4. Objectives:</p> <p>4.1 General Objectives:</p> <p>To forge business agreements with the private sector on the use of UP innovations to contribute to business development and job creation in the country that would ultimately benefit Philippine society.</p> <p>4.2 Specific Objectives:</p> <p>1.To present UP's relevant innovations to the following private sector entities engaged in the above areas of product development: JG Summit/Universal Food Corporation (UFC), SM Corporation, Jollibee Group of Companies, United Laboratories and affiliate companies and foundations, Steel Asia Corporation, and carefully selected MSMEs and non-UP startups, both local and foreign.</p> <p>2.To pursue and forge equitable, progressive business arrangements and synergistic partnerships with the private sector, making use of UP's innovations in products and services, specifically in</p>	



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areas relating to the sustainable development of education, food, agriculture, fisheries, health, energy, materials, environmental monitoring and digital products.

5.Expected Output:

1. Agreements signed on specific UP innovation products and services initially with at least 5 business entities
2. Efficient implementation of projects with productive innovation output
3. Financial returns to UP from business engagement based on intellectual property covering UP innovations and implementation of innovation agenda

8.Implementation Schedule/Gantt Chart: ~2 years

Year 1

Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12
1. Research on target industries	→						→					
2. Preparation of innovation portfolios and innovators' presentations			→						→			
3. Initial and follow-up visits to industry targets with UP alumni					→						→	
4. Forge agreements							→					
5. Monitor progress and output										→		

Year 2

Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12
1. Research on target industries	→											
2. Preparation of innovation portfolios and innovators' presentations				→								
3. Initial and follow-up visits to industry targets with UP alumni	→					→						
4. Forge agreements		→						→				
5. Monitor progress and output			→							→		



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PROJECT H2: Social Innovation Competition Among UP Constituent University (CU) Communities

1. Proponents:
Gisela P. Concepcion, SAPRI
Luis G. Sison, TTBD0 Director
Jose Emmanuel P. Reverente, IEO

Co-proponent:
Angelica Abad-Bilan, SAP, OP

2. Collaborators:
Chancellors
CU TTBD0 Directors

3. Executive Summary:

UP Constituent Units (CUs) are microcosms of Philippine communities and Philippine society. There is a sufficient amount of diversity in each CU in terms of the human population (age and generation, gender, occupation and employment, their social, creative and intellectual interactions (student, faculty, researchers, artists, retirees, administrative academic and non-academic staff, units of family, couples or single individuals). Each CU has linkages with its alumni, with government agencies at the national, regional and local levels, and also with the private sector (industries, MSMEs, NGOs, civil society), and with the international community. Major factors that affect the lives in each CU are the built infrastructure and facilities, and the natural pristine surroundings which constitute the environment. Each CU has its unique attributes in terms of its priority academic programs and research and innovation thrusts and specializations, which determine and drive the major activities and source of livelihood in the CU. UP CUs should aim to become model communities for Philippine society to emulate, i.e., in localities, such as barangays, towns, cities, municipalities. UP CUs will be more productive and sustainable over the long term, by adopting innovations for governance, administration and management, academics, teaching, learning and mentoring, creative work, research and innovation productivity, physical, social and mental health of the human population, food and energy sufficiency, digital, IoT- and AI-empowered efficiency, maintenance and repair of buildings and facilities, waste management, pollution control and environmental conservation and management of the CU. The UP CUs Social Innovation Competition, as part of the proposed Gawad Pangulo Competitions series, aims to showcase the UP CUs' efforts to address critical challenges and problems in various aspects of university community life, as enumerated above. The winning UP CUs will emerge as the leaders or models of social innovation in the country. The guidelines for the competition will take into consideration the disparity among CUs in terms of human population, the hectareage/size of the CU, its location and surroundings, i.e., urban, urban-rural, provincial, virtual), and the age/maturity of the CU. Significant prize money will accompany the awards so that the CUs can continue to pursue their innovative initiatives and become models of social innovation where happy, healthy, productive individuals live in an energy-efficient, electronically-empowered, and environmentally-sustainable community.

4. Objectives:

4.1 General Objectives:



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The R&I Team aims to promote friendly competition and foster community spirit among the CUs as they aim to attain SDG goals to transform their CUs into environmentally sustainable, efficient, thriving and productive academic communities where healthy, happy, and highly motivated individuals live and flourish. These communities can be emulated by surrounding LGUs, other SUCs and HEIs. The goal is to showcase the winning CUs with ongoing effective social innovations and plans and support them for further expansion of their initiatives.

4.2 Specific Objectives:

1. Identify areas of holistic social innovation guided by SDGs that each CU undertakes relating to the pursuit of:
 - academic excellence, teaching and learning, curriculum and pedagogy
 - research, creative work productivity and effective service to the Filipino people
 - administrative, management and operational efficiency
 - improvement in the quality of life of students, faculty, REPS, administrative staff, non-academic personnel and their families
 - improvement the quality of the built (infrastructure) and natural environment in the CU
 - active engagement with alumni, LGUs and collaboration with SUCs, HEIs, NGOs towards sustaining the UP CU and nearby communities
3. Provide guidelines for the inter-CU UP Social Innovation Competition
4. Consider categories of the competition, i.e., larger and smaller CUs, partnerships between CUs.
5. Provide substantial prize money to the winners to pursue the future plans for more social innovations incorporated in their entries.

6. Implementation Schedule/Gantt Chart: ~2 years

Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12
1. Consultation with CU leaders	→											
2. Formulation of guidelines			→									
3. Announcement and promotion of competition, submission deadline				→								
4. Review for pre-qualification and holding of competition						→						
5. Monitoring of post-competition initiatives and utilization of prize money								→				



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PROJECT I: AI-Empowered Research and Innovation Conference, Orientation and Training

1. Proponents:
Prospero C. Naval, Jr., Professor, DCS, UPD
Peter A. Sy, AVPD
Gisela P. Concepcion, SAPRI
Jose Emmanuel P. Reverente, IEO

Co-proponents:
Percival F. Almoró, AVPAA-R
Theresa T. Payongayong, AVPAA-C

2. Collaborators:
VCAAs/RCEs of CUs

3. Executive Summary:

The R&I Team proposes to leapfrog UP to the next generation of AI-empowered research, creative work and innovation. UP will host a widely publicized AI-empowered Research and Innovation conference for UP CUs, academe, government and industry. UP would promote and incentivize thesis, dissertations, R&D projects and programs that would include a major data science and AI component for research in the natural, physical, biological, computational, and social sciences and the culture and creative fields. This would entail a partnership between natural scientists working on topics relating to food, health, materials, biodiversity, environment, culture, creatives, etc. and computer and data scientists and AI engineers, e.g., making use of field and laboratory experimental data to build robots and smart automated systems. Further faculty, researchers and students would be incentivized to take courses on data science and AI or to pursue MS and PhD studies in AI. This team-up strategy will go a long way in ensuring the academic and RDI leadership of UP in the country, and the ability of UP innovations to address effectively, efficiently, the problems and challenges faced by the public and private sectors and communities in the country. The R&I Team, UP's AI experts, and AVPAAs will plan the conference, orientation and training for AI-empowered R&I.

4. Objectives:

4.1 General Objectives

UP will aim to play a significant role at the cusp of the AI revolution and will lead the country in the ethical use of AI for empowerment of research and innovation that would contribute to all areas of growth and development in the country.

4.2 Specific Objectives

1. Host a widely publicized conference to draw attention to the great potential of AI to empower research and innovation.
2. Create and lead a consortium of universities and research institutions to embark on AI-empowered research and innovation.



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3. Publicize UP's teaching and training courses in data science, deep machine learning and AI and draw students to enroll or major in these degree programs.
4. Publicize UP as one with the greatest potential to lead the country in AI development through the Institute of AI and Robotics to be established at the College of Engineering in UP Diliman.
5. Aim to obtain significant funding to procure critical supercomputers and other equipment to support AI education and research.
6. Promote training and mentoring on AI in the various fields of research and creative work through incentives for thesis, dissertations and projects that would include a data science and AI component.
7. Encourage undergraduate and postgraduate students from various disciplines to enroll in data science and AI course and programs.

5.Expected Output:

1. Increase in AI projects in UP CUs.
2. Increase in enrolment in data science and AI courses
3. Increase in AI infrastructure and facilities of UP
4. Increase in well-curated big training datasets for deep machine learning and AI
5. Increase in models of efficiently designed, automated processes operated and controlled through AI algorithms, sensors, drones and robots

8.Implementation Schedule/Gantt Chart: ~1 year for orientation and promotion through conference, meetings and workshops

Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12
1. Organize and host conference	→											
2. Organize and host follow-up meetings			→									
3. Create consortium					→							
4. Host hybrid meetings on case studies and published work							→					
5. Identify AI leaders									→			
6. Establish incentives for research with AI component							→					



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PROJECT J: Guidance and Coaching of UP Innovators on Business Plans, Market and Adoption Readiness by External Experts	
<p>1. Proponents: Gisela P. Concepcion, SAPRI Jose Emmanuel P.Reverente, IEO Luis G. Sison, TTBDO Director</p>	<p>Co-proponents: TTBDO Directors, CUs</p>
<p>2. Collaborators: Executive Members, National Innovation Council Successful technopreneurs, UP alumni and non-alumni, e.g., <i>Agritektura, Bambuhay, Waves for Water, GreenAntz, InvestED</i>, etc. techno-MSMEs innovation hubs such as QBO, other creative, social and commercial enterprises</p>	
<p>3.Executive Summary:</p> <p>The R&I Team will organize a series of hybrid events where UP researchers, innovators, early and mid-stage start-up entrepreneurs from all CUs will have the opportunity to listen to and be provided insights and advice by the Executive Members (EMs) of the National Innovation Council, some of whom are successful technopreneurs. EMs will also share updates on the implementation of the objectives of the National Innovation Agenda and Strategy Document (NIASD) which is the blueprint innovation document of the country. EMs will share insights and hear out UP innovators' insights on how to improve NIASD, and also inform UP innovators on the planned regional and national annual Innovation Competition, the status of the Innovation Fund and Innovation Grants. NIC Ems will also explain the implications of the <i>Tatak Pinoy</i> Law and IRR. Further, the R&I Team will invite early to mid-level startup companies and MSMEs to talk about their enterprises, creation of business plans and market and adoption readiness, share their success strategies and action plans, as well as the challenges they face, and explore collaborations with UP researchers and innovators. Several of these entrepreneurs and business leaders are UP alumni, and several are non-UP alumni.</p>	
<p>4. Objectives:</p> <p>4.1 General Objectives:</p> <p>The goal is to expose UP researchers, innovators and innovation fellows to other innovation experts and knowledgeable resource persons on innovation who are not employed in UP. This will provide supplementary perspectives and training to the UP R&I community where up to the present there have been very few success stories on thriving, income-generating innovation enterprises.</p> <p>4.2 Specific Objectives:</p> <p>1. Inform the UP R&I community about the National Innovation Act, National Innovation Agenda and Strategy Document, and the <i>Tatak Pinoy</i> Law and IRR.</p>	



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2. Exchange insights to improve the National Innovation Act.
3. Showcase the work of non-UP innovators and start-up companies that have a steady stream of products and services, and are thriving, income-generation enterprises.
4. Explore/foster collaborations/partnerships with non-UP innovators.

5. Expected Output:

1. Deeper understanding of UP innovators of opportunities for advancement provided by national innovation grants and competitions, and for sales through the *Tatak Pinoy* Law and IRR.
2. Broader, more practical knowledge of UP innovators of market readiness and adoption readiness aside from technology readiness
3. Increased number of funding for UP innovators and start-ups
4. Advancement to higher TRLs, MRLs, ARLs of UP innovators

6. Implementation Schedule, Gantt Chart: ~1 year

Activity/Month	1	2	3	4	5	6	7	8	9	10	11	12
1. Discussions with NIC Executive Members		→					→					
2. Scoping for non-UP entrepreneurs			→									
3. Coaching events					→				→			
4. Collaboration of UP and non UP innovators						→				→		