Pakistan Portfolio
SDGs Investment Fair
14 APRIL- 2021
Pakistan Profile

- Projected to approach upper middle-income status, with declining poverty rate, lowered inequality and better HDI ranking.
- National poverty headcount ratio declined from 6.1% in 2013-14 to 3.9% in 2015-16.
- Estimated private investment needs of $96.2 billion in infrastructure related SDGs makes Pakistan an attractive destination for FDI.
- Gradual increase in investment to GDP ratio required from 15% to 25% to achieve sustainable growth.
- Risk mitigation: COVID-19 has increased the number of people living below the poverty line to approx. 50 million (25% of population). Hence, immediate need for SDG investments to prevent reversal of recent economic gains.
A Frontier Market Ripe for Growth

Sectoral Share in GDP
- Agriculture Sector contribution to GDP: 19.31%
- Industrial Contribution to GDP: 19.29%
- Services Sector contribution to GDP: 61.4%

Net Foreign Direct Investment Major Sectors (2019-2020)
- Communications & IT: 24.3% (622.5m)
- Financial Business: 10.7% (273.8m)
- Power: 29.8% (764.3m)
- Oil & Gas: 12.2% (311.4m)
- Textile: 1.47% (37.7m)

Pakistan Economic Survey 2019-20
Demographic Dividends as Force Multiplier

Total Population: 211.17 m

Youth Population:
- Under 29 years: 67.6%
- Between 15-29 years: 26.8%

Workforce Population: 65.5 m

Youth Employment to Pop Ratio: 42.30

Languages:
- Urdu (Official)
- English (Official)

Land Area: 796,096 sq. km

Mobile Subscribers: Over 180 million

Teledensity: 84.04% (Jan 2021)

Internet Subscribers: 100 million (April 2021)

Continued Fiscal Constraint

Pakistan average growth is low

And will be further impacted by COVID-19

Projected Impact of COVID-19 on Real GDP Growth (%)

Tax revenue is low

Source: World Development Indicators, 2017-2020
Pakistan’s Growth Vision 2025

1. Rebuild Institutions
2. Inclusive Growth
3. Enhance Competitiveness
4. Green Economy
5. Jobs for Youth
Top 5 Reasons to Invest in Pakistan

1. Large market of over 200m +
2. Regional connectivity with China, West & Central Asia
3. Highest corporate profitability in emerging markets
   Rose 39% as compared to 2019
4. Developed financial market and favorable investment regulations
5. Highest increase in Ease of Doing Business ranking – from 147 to 108
Liberal Investment Regime

- Uniform treatment to local and foreign investors
- No requirement of minimum investment
- Protection of Investment against unlawful expropriation
- 100% repatriation of profits, dividends
- No restriction on currency convertibility
- 100% equity is allowed except agriculture, airlines, media & banking
Pakistan SDG Investment Opportunity

Potential of private sector investment of $96.2bn

- **Transport**: $13.5bn
  - Total $38.5bn investment required to achieve significant improvements by 2030

- **Clean Water & Sanitation**: $4.0bn
  - Total $40.1bn investment required to achieve universal access by 2030

- **Digital Access**: $34.0bn
  - Total $56.6bn investment required to achieve universal access by 2030

- **Power**: $44.7bn
  - Total $99.3bn investment required to achieve universal access by 2030

Source: Opportunity 2030. The Standard Chartered SDG Investment Map
Flexible Investment Options

Option 1
Facilitation in Investment Transactions in all SDG Projects

Option 2
Float SDG Impact Fund for $500m

Option 3
Sector Specific SDG Bonds or $500m Sukuks

Board of Investment
Strategic Partnerships Opportunities with Pakistani Financial and Corporate Sector

Solid Assets & Securitized Cash Flows managed by Credible Asset Management Companies

Priority Areas
Climate Change
Infrastructure
Technology
PRIORITY SDG
ALIGNED PROJECTS
Pakistan Board of Investment

- One Window for your investment endeavors in Pakistan
- Apex Investment Promotion & Facilitation Agency
- Focal Agency to Improve Legislative/Regulatory/Policy Environment for Investment
- Secretariat & Lead Agency for

- Investment Policy
- Special Economic Zones
- Industrial Cooperation under CPEC
- Ease of Doing Business
- Regulatory Modernization Initiative
- Recommendation for Work Visa
- Branch / Liaison Office

(www.invest.gov.pk)
Investment Facilitation

- Company Registration in a Single Day
- Online Visa Facilitation
- Online One Window Portal
- Special Incentives for Technology & Social Sectors
- Borrowing Facilitation from Financial Sector
List of Priority SDGs Aligned Projects

- Sialkot-Kharian-Rawalpindi Motorway Phase-I
- Sialkot-Kharian-Rawalpindi Motorway Phase-II
- 188 MW Naran Hydropower Project
- 96 MW Batakundi Hydropower Project
- Medical Devices Development Center
- Silicon Solar PV Panel Fabrication Facility (500 MW/annum)
- Production of Agriculture Drones & 250 Smart Farms
- NED Technology Park
- Startup Incubations Across Pakistan
Description:
This important toll road project is designed with a total length of 69 km connecting Pakistan’s largest SME industrial cities. This strategic project will play a major role in Pakistan’s post-COVID economic recovery. The basic design and commercial feasibility study have been done. The project will be extension of 4-lane Lahore-Sialkot Motorway which is operational for traffic. The Sialkot-Kharian project would further be extended up to Rawalpindi in next phase. The project will reduce cost of doing business and increase commercial transport connectivity.

Government Contracting Agency: National Highway Authority (NHA)
Contact Person: Dr. Iftikhar Mehboob. mehboob.iftikhar@gmail.com; Aatif Umer, BOI aatifumar@invest.gov.pk
Estimated Concession Period: 25 years

Business Opportunity: Construction Industry Growth; Consultancy Firm’s (Engineering, Financial, and Legal) to flourish; Service Area Industry (Hotel Industry, Trucking Stations, Fueling Stations, etc.)

Project Status: Project is currently on Request For Proposal phase

Indicative Government Support & Guarantee:
Potentially guaranteed by Government Subsidy in the form of Viability Gap Fund (VGF)

Implementation Schedule:
1. Preparation : 2020 - 2021
2. Land Acquisition : Dec-2021
3. Construction : 2022-2023
4. Operation : Jan-2024

Social Impact Outcomes of the Project
Outcome 1: Industrial cities like Sialkot, Gujrat, and Wazirabad with high-speed connectivity. Will also reduce migration pressure to large cities.

Outcomes 2: Thousands of jobs will be created allied with forty industries associated with the construction of road.
Project 1  SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE I

Corporate Structure of the Project
Special Purpose Vehicle (SPV)

Estimated Project Cost : $ 290 million (Approx)

Financial Feasibility:
Equity IRR : 17%
Project IRR : 14%

Indicative Project Structure

GoP - VGF
$25 million

Investment in Equity shares
Build-operate-transfer (BOT) Agreement 25 Years

NHA
(Ministry of Communications)

SPV

Construction Agreement
Operators Agreement

Development Partners
(consultant/contractor/vendor)
(Yet to be Procured)

Sialkot

Kharian

Corporate Entity- Up to 50% SDG Impact Investment

Project Timeline

Final Business Case (FBC)
Pre-Qualification
Request for Proposal
Bid Award
Contract Signing
Financial Close
Construction

Q4 2020
Q1 2021
Q1 2021
Q2 2021
Q3 2021
Q4 2021
2022- 2023

Build Operate Transfer (BOT) Agreement
Project 1 SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE II

Description:
This Phase-II of the project is designed with a total length of 115 km. The basic design and commercial feasibility study is in progress. The project will be an extension of 4-lane Sialkot-Kharian Motorway which is under procurement. The construction of Kharian-Rawalpindi section shall complete the Lahore-Sialkot-Kharian-Rawalpindi Motorway network. It will be a major initiative to connect SME hubs for job creation and productivity enhancement.

Sector: Communication  Sub Sector: Transport

Government Contracting Agency: National Highway Authority (NHA)
Contact Person: Dr. Iftikhar Mehboob. mehboob.iftikhar@gmail.com; Aatif Umer, BOI aatifumar@invest.gov.pk
Estimated Concession Period: 25 years

Business Opportunity: Construction Industry Growth; Consultancy Firm’s (Engineering, Financial, and Legal) to flourish; Service Area Industry (Hoteling Industry, Trucking Stations, Fueling Stations, etc.)

Project Status: Project is currently on Request For Proposal phase

Indicative Government Support & Guarantee: Potentially guaranteed by Government Subsidy in the form of VGF

Implementation Schedule:
1. Preparation: 2020 - 2021
2. Land Acquisition: 2022
4. Operation: Jan-2025

Social Impact Outcomes of the Project
Outcome 1: Connectivity with impoverished areas. Deprived regions will be connected. Will reduce pressure on urban migration.

Outcomes 2: Thousands of jobs will be created allied with forty industries associated with the construction of road.
**Project 1**

**SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE II**

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### Corporate Structure of the Project
Special Purpose Vehicle (SPV)

### Estimated Project Cost:
$1,155.6 million

### Financial Feasibility:
- **Equity IRR:** 17% (financial feasibility is finalized)
- **Project IRR:** 14%

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### Indicative Project Structure

**Corporate Entity- Up to 50% SDG Impact Investment**
- **GoP - VGF $25 million**
  - Investment in Equity shares

**SPV**
- Build-operate-transfer (BOT) Agreement 30 Years
  - Construction Agreement
  - Operations Agreement

**NHA (Ministry of Communications)**

**Kharian**

**Rawalpindi**

**Developmen’ Partners (consultant/contractor/vendor)**

**Operator**

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### Project Timeline
- **Final Business Case (FBC)**: Q4 2020
- **Pre-Qualification**: Q3 2021
- **Request for Proposal**: Q3 2021
- **Bid Award**: Q4 2021
- **Contract Signing**: Q4 2021
- **Financial Close**: Q2 2022
- **Construction**: 2022-2024

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**Indicative Project Structure**

**GoP - VGF $25 million**
- Investment in Equity shares

**SPV**
- Build-operate-transfer (BOT) Agreement 30 Years
  - Construction Agreement
  - Operations Agreement

**NHA (Ministry of Communications)**

**Kharian**

**Rawalpindi**

**Developmen’ Partners (consultant/contractor/vendor)**

**Operator**

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**Corporate Entity- Up to 50% SDG Impact Investment**

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**Estimated Project Cost:** $1,155.6 million

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**Financial Feasibility:**
- **Equity IRR**: 17% (financial feasibility is finalized)
- **Project IRR**: 14%
Description:
The feasibility study has resulted in a project size of 188 MW with a good economic rate of return. Naran dam and powerhouse have been proposed in the river stretch between Kaghan and Batakundi on Kunhar River. The dam site on Kunhar River is 12 km upstream of major tourist city of Naran. The powerhouse is to be located on the left bank of Kunhar River, 11 km downstream of Naran town. IFC has been appointed as the Transaction Manager.

Sector: Clean Energy
Sub Sector: Construction

Government Contracting Agency: Pakhtunkhwa Energy Development Organization, Energy & Power Department, GoKP. Contact Person: Mr. Muhammad Mazahir Ali. kpprojects@kpboit.gov.pk ; Aatif Umer, BOI aatifumar@invest.gov.pk

Estimated Construction Period: 7 years

Business Opportunity: Available for investment in PPP mode after International Competitive Bidding (ICB)

Project Status: Project is currently on Request For Proposal phase


Implementation Schedule:
1. Preparation : 2021-2022
2. Land Acquisition : 2023-2024
3. Construction : 2024-2028
4. Operation : 2028

Social Impact Outcomes of the Project
Outcome 1: Several number of new businesses will be generated. Provision of low-cost clean energy.
Outcome 2: A greater number of jobs will be created both during implementation and operation phases. Reduction in carbon emissions.
Project 2 188 MW NARAN HYDROPOWER PROJECT

Corporate Structure of the Project
Special Purpose Vehicle (SPV)

Estimated Project Cost: $431 million

Financial Feasibility:
FIRR: 7.05%

Indicative Project Structure

Corporate Entity- Up to 50% SDG Impact Investment

Build-own-operate-transfer (BOOT) Agreement 30 Years

Development Partners (consultant/contractor/vendor) (Not Applicable at this stage)

Operator

Project Timeline

Final Business Case (FBC)  Pre-Qualification  Request for Proposal  Bid Award  Contract Signing  Financial Close  Construction

Q2 2022  Q4 2022  Q1 2023  Q3 2023  Q3 2023  Q1 2024  2024-2028

PEDO (Pakhtunkhwa Energy Development Organization)

Mansehra  Naran

Corporation

Construction Agreement

Operations Agreement
Project 3  96 MW BATAKUNDI HYDROPOWER PROJECT

**Description:**
The feasibility study has resulted in a project size of 96 MW with good economic rate of return. The Batakundi HPP is proposed to be located on Kunhar River, with its powerhouse located about 01 km downstream of Batakundi Village, which falls in District Mansehra of KP Province. The project area is accessible by road from Rawalpindi / Islamabad through Abbotabad, Mansehra and Balakot. IFC has been appointed as Transaction Manager.

**Sector:** Clean Energy  
**Sub Sector:** Construction

**Government Contracting Agency:** Pakhtunkhwa Energy Development Organization, Energy & Power Department, GoKP. Contact Person: Mr. Muhammad Mazahir Ali. kpprojects@kpboit.gov.pk ; Aatif Umer, BOI aatifumar@invest.gov.pk

**Estimated Construction Period:** 7 years

**Business Opportunity:** Available for investment in PPP mode after International Competitive Bidding (ICB)

**Project Status:** Project is currently on Request For Proposal phase

**Indicative Government Support & Guarantee:** Potentially guaranteed by Federal Government Agency.

**Implementation Schedule:**
1. Preparation : 2021 - 2022
2. Land Acquisition : 2023-2024
3. Construction : 2024-2028
4. Operation : 2028

**Social Impact Outcomes of the Project**
Outcome 1: Several number of new businesses will be generated. Provision of low-cost clean energy.

Outcomes 2: A greater number of jobs will be created both during implementation and operation phases. Reduction in carbon emissions.
Project 3 96 MW BATAKUNDI HYDROPOWER PROJECT

Corporate Structure of the Project
Special Purpose Vehicle (SPV)

Estimated Project Cost: $188.29 million

Financial Feasibility:
FIRR: 10.87%

Indicative Project Structure

Corporate Entity - Up to 50% SDG Impact Investment

Build-own-operate-transfer (BOOT) Agreement 30 Years

PEDO (Pakhtunkhwa Energy Development Organization)

Mansehra

Naran

Development Partners (consultant/contractor/vendor) (Not Applicable at this stage)

Operator

Project Timeline

Final Business Case (FBC) Pre-Qualification Request for Proposal Bid Award Contract Signing Financial Close Construction

Q4 2021 Q2 2022 Q4 2022 Q2 2023 Q4 2023 Q2 2024 2024-2028
# Project 4: MEDICAL DEVICES DEVELOPMENT CENTER

## Project Location

![Image of project location](image_url)

**Description:**
N-ovative Health Technologies (previously named as MDDC) is a public sector company established at National University of Sciences and Technology (NUST) under the special directives of Prime Minister’s Office. The company is looking to expand and scale up operations. It is currently producing Low-cost treatment solution for the patients suffering from Heart (cardiac) diseases.

<table>
<thead>
<tr>
<th>Sector: Healthcare</th>
<th>Sub Sector: Medical Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Government Contracting Agency:</strong> Ministry of Science and Technology &amp; NUST</td>
<td></td>
</tr>
<tr>
<td><strong>Contact Person:</strong> Mr. Hamza Haroon. <a href="mailto:hamza.a.haroon@gmail.com">hamza.a.haroon@gmail.com</a>; Aatif Umer, BOI <a href="mailto:aatifumar@invest.gov.pk">aatifumar@invest.gov.pk</a></td>
<td></td>
</tr>
<tr>
<td><strong>Estimated Construction Period:</strong> 1 year</td>
<td></td>
</tr>
</tbody>
</table>

**Business Opportunity:** Work on ventilators, syringe pumps, dialysis machine, patient monitors, cathedrals. Immediate expansion of 3 products scaling up to 10 products in next two years.

**Project Status:** Project is currently producing small scale devices such as stents

**Indicative Government Support & Guarantee:** Supported by Ministry of Science and facility European commission certified and DRAP licensed production facility for medical devices

<table>
<thead>
<tr>
<th>Implementation Schedule:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Preparation            : 2021</td>
</tr>
<tr>
<td>2. Construction           : 2021-2022</td>
</tr>
<tr>
<td>3. Operation              : 2022</td>
</tr>
</tbody>
</table>

**Social Impact Outcomes of the Project**

**Outcome 1:** Availability of cost-effective healthcare services in Pakistan.

**Outcome 2:** Reduction in import bill and job opportunities in the healthcare sector. Contribution to Post-COVID healthcare provision.
Project 4  MEDICAL DEVICES DEVELOPMENT CENTER

Corporate Structure of the Project
Public Sector For Profit Company looking to Expand

Estimated Project Cost : $ 2.31 million

Financial Feasibility:
FIRR : 7.1%

Indicative Project Structure

MoST

MDCC

NUST

SPV

Investment 50%

SDG Private Sector Investment Fair

Project Timeline

Final Project Submission  Approval  Construction/Expansion  Production  Sales

Q3 2021  Q4 2021  Q1 2022  Q4 2022  2023
Pakistan is importing more than 3000MW PV panels/annum. The demand of PV panels is increasing exponentially. It is estimated that 2900 GW of electricity can be generated in Pakistan using day light hours. Pakistan being the sunbelt country will be one of the largest consumers of PV panels. Importing huge quantity of PV panels is already consuming substantial amount of foreign exchange which is surely expected to increase tremendously in near future. In view of above local manufacturing of PV panels is direly needed.

**Sector:** Renewable Energy  
**Sub Sector:** Solar Photovoltaics

**Government Contracting Agency:** Pakistan Council of Renewable Energy Technologies Dr. Afzal Hussain Kamboh. Afzal8isb@yahoo.com ; Aatif Umer, BOI aatifumar@invest.gov.pk

**Estimated Construction Period:** 2 years

**Indicative Government Support & Guarantee:** Potentially guaranteed by Ministry of Science & Technology

**Business Opportunity:** B2B Model.

**Project Status:** Project is currently on Request For Proposal phase

**Implementation Schedule:**
1. Preparation : 2021 - 2022  
2. Land Acquisition : 2022-2023  
3. Construction : Jan 2024  
4. Operation : After Construction

**Social Impact Outcomes of the Project**

Outcome 1: Major contribution towards affordable renewable energy. Import substitution.

Outcomes 2: Reduced carbon emission, job creation, climate change risk mitigation.
Project 5  SILICON SOLAR PV PANEL FABRICATION FACILITY (500 MW/ANNUM)

**Corporate Structure of the Project (B2B Model)**

- MoST
- PCRET
- SEZ Hattar or Rashakai, KPK
- SPV
- Business Entity
- Business Entity

**Estimated Project Cost:** $19.21 million

**Financial Feasibility:**

- IRR: 12.20%

**Project Timeline**

- Final Business Case (FBC)
  - Q4 2021
- Pre-Qualification
  - Q1 2022
- Request for Proposal
  - Q2 2022
- Bid Award
  - Q3 2022
- Contract Signing
  - Q4 2022
- Financial Close
  - Q1 2023
- Construction
  - Q2 2024
Project 6  PRODUCTION OF AGRICULTURE DRONES & 250 SMART FARMS

Description:
Global Drone Technology is growing at a rate of over 20% and is expected to double in the next 5-7 year. Pakistan, an agricultural country, can greatly benefit from this technology specifically as it implements technology towards farming. Smart Farms is the future of farming which allows on average 10X yield generation with efficient utilization of land. Smart farms incorporate latest technologies like Drone technologies and sensors to increase yield, safer production and efficient utilization of resources.

Sector: Agriculture and Food Technology. Sub-Sector: Drone Technology

Government Contracting Agency: Ministry of Science and Technology, Private Sector. Contact Person: Hamza Haroon. hamza.a.haroon@gmail.com; Aatif Umer, BOI aatifumar@invest.gov.pk

Estimated Construction Period: 3 years

Business Opportunity: To build A comprehensive collection of interoperable technologies for farm-level precision agriculture methods comprising:
- Multi-rotor, Hybrid & Fixed Wing Unmanned Aerial Systems (UAS)
- Array of Imaging Sensors
- High Performance & Cloud Computing (HPCC)
- 250 Smart Farms across Pakistan that venture in high demand crop using optimized technology

Project Status: Feasibility completed. Looking for financial close.

Indicative Government Support & Guarantee:
Facilitated by Ministry of Science and Technology

Implementation Schedule:
1. Preparation : 2021-2022
2. Facility construction : 2022-2023
3. Operation : 2023 -beyond

Social Impact Outcomes of the Project
Outcome 1: Improved productivity in agriculture sector. Contribution towards food security.

Outcomes 2: Direct impact on rural poverty reduction through higher yields and job opportunities.
Project 6: PRODUCTION OF AGRICULTURE DRONES & 250 SMART FARMS

Corporate Structure of the Project
Public Private Partnership.

Estimated Project Cost: $58.1 million

Financial Feasibility:
FIRR: 23.19%

Indicative Project Structure

MoST

Private Sector

Govt/NASTP

SDG Private Sector Investment Fair

Arid Agriculture University

SPV

Project Timeline

Final Business Case Proposal
Q4 2021

Commencing Construction of facilities
Q2 2022

Delivery of Agri Drones
Q1 2023

Delivery of HPCC License
Q2 2023

Commence ment of Smart Farms
Q3 2022

Sales
Q1 2024
Description:
NED Interregional Technology Park (ITP) will be the first fully integrated Science and Technology Park of Pakistan to be established within the premises of NED University Karachi under Public Private Partnership model. The initiative is meticulously aimed at redesigning the knowledge economy by stimulating and nurturing innovation-led germination and growth of hi-tech entities. Interregional Technology Park (ITP) will be the new national tech-pad where entrepreneurs and multinationals will come together to discover, ideate, create, collaborate and break new ground.

Government Contracting Agency: NED University of Engineering & Technology, Karachi. Contact Person: Dr. Asad Arfeen. arfeen@neduet.edu.pk; Aatif Umer, BOI aatifumar@invest.gov.pk

Estimated Concession Period: 20 years

Implementation Schedule:
1. Preparation: 2019-2020
2. Land Acquisition: own land
3. Construction: 2021-2023
4. Operation: Dec 2023

Social Impact Outcomes of the Project
Outcome 1: 200 new business opportunities. Major contribution in productivity enhancement through technology.

Outcome 2: 4000 new jobs will be created. Digital adoption facilitation through university industry linkage.
Project 7 NED TECHNOLOGY PARK

Corporate Structure of the Project
Special Purpose Vehicle (SPV)

Estimated Project Cost: $55.74 million

Financial Feasibility:
FIRR: 15% approx
NPV: N/A

Project Timeline
Final Business Case (FBC) - May 2021
Pre-Qualification & RFP - June 2021
Bid Award - August 2021
Contract Signing - Sep 2021
Financial Close - Dec 2021
Construction - 2021-2023

Indicative Project Structure

Procuring Agency
NED University
Private Developer
SPV

Corporate Entity - Up to 50% SDG Impact Investment
Investment as Equity
20% and Subordinate Debt
Land as Equity

Construction Contracts
(Sub-contractor/vendor)

Sub-Contracts

O&M Contractor

Build-operate-transfer (BOT)
Agreement 20 Years

Project to be implemented on Public Private Partnership (PPP) mode. NED and the Private Developer will sign the PPP agreement.
Description:
National Incubation Center is a joint venture of Government of Pakistan and major corporate entities. NIC is currently running five start-up facilities in all provinces of Pakistan. Each facility hosts 50 start-up tech companies. Siting the impact of ongoing projects under national incubation center, the Ministry of Information Technology has decided a major expansion for establishing innovation ecosystems and themed incubators across twenty locations in the country. This project is making huge contribution towards youth employment and technology innovation in Pakistan.

Sector: Information Technology
Entrepreneurship

Contact person: Muhammad Saleem Ranjha. saleemranjha@yahoo.com; Aatif Umer, BOI aatifumar@invest.gov.pk

Estimated Concession Period: 18 months

Business Opportunity: Developing Pakistan's Startup Ecosystem

Project Status: Project is currently on Request For Proposal phase

Indicative Government Support & Guarantee:
N/A

Implementation Schedule:
1. Preparation: 2021
2. Venue Acquisition: 2021-2022
3. Renovation: 2022
4. Operation: Dec 2022

Social Impact Outcomes of the Project:
Outcome 1: Incubating and supporting 500 startups per annum. Promoting digital connectivity and innovation.
Outcome 2: Creating 100,000 jobs across the span of the project through the companies.
Project 8  STARTUP INCUBATIONS ACROSS PAKISTAN

Indicative Project Structure

Corporate Structure of the Project
Relevant Government Ministry and Private Company

Estimated Project Cost : $ 120 million

Financial Feasibility:
FIRR : 14% (for current incubation centers)
NPV : N/A

MoIT

Business Entity
Investment in shares
50% Equity/loan

20 Locations

NIC

SPV

SDG Private Sector Investment Fair
Investment in shares
50% Equity/loan

Operator

Operational Agreement

MoIT

Project Timeline

Final Business Case (FBC)
Pre-Qualification
Request for Proposal
Bid Award
Contract Signing
Financial Close
Venue Acquisition & renovation

Q4 2020  Q1 2021  Q2 2021  Q3 2021  Q4 2021  Q1 2022  Q4 2022

MoIT  Business Entity  SPV  Operator  SDG Private Sector Investment Fair
Thank you
Q&A
### Project 1: SIALKOT-KHARIAN-RAWALPINDI MOTORWAY – PHASE I

#### Additional Information Project Cost Overview

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $ Million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project preparation</td>
<td>----</td>
</tr>
<tr>
<td>Land acquisition</td>
<td>25.70</td>
</tr>
<tr>
<td>Construction</td>
<td>225</td>
</tr>
<tr>
<td>Project management</td>
<td>----</td>
</tr>
<tr>
<td>Interest</td>
<td>11.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>290.00</strong></td>
</tr>
</tbody>
</table>
### Additional Information Project Cost Overview

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Works</td>
<td>402,077</td>
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<tr>
<td>Furnishing</td>
<td>12,903</td>
</tr>
<tr>
<td>Cleanrooms Class 10,000</td>
<td>19,355</td>
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<tr>
<td>Manufacturing Equipment</td>
<td>589,935</td>
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<tr>
<td>Testing and Validation</td>
<td>120,000</td>
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<tr>
<td>Certification</td>
<td>38,710</td>
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<tr>
<td>Hardware</td>
<td>22,581</td>
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<tr>
<td>Honorarium</td>
<td>6,452</td>
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<tr>
<td>Operational Cost</td>
<td>456,516</td>
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<tr>
<td>Vehicle</td>
<td>19,355</td>
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<tr>
<td>Backup Generator</td>
<td>16,129</td>
</tr>
<tr>
<td>Hardware/Others</td>
<td>6,452</td>
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<tr>
<td>Clinical trials</td>
<td>335,484</td>
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<tr>
<td>Misc.</td>
<td>90,323</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>2,136,271</strong></td>
</tr>
</tbody>
</table>
**Project 5**

SILICON SOLAR PV PANEL FABRICATION FACILITY (500 MW/ANNUM)

**Additional Information Project Cost Overview**

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $ million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project preparation</td>
<td>1.10</td>
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<tr>
<td>Land acquisition</td>
<td>22 (lease period 99 years)</td>
</tr>
<tr>
<td>Construction</td>
<td>16.77</td>
</tr>
<tr>
<td>Project management</td>
<td>1.29</td>
</tr>
<tr>
<td>Interest</td>
<td>0.05</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>19.21</strong></td>
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</table>
## Additional Information: Project Cost Overview

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $ million</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgriVerse Hardware &amp; Software Infrastructure</td>
<td>3.50</td>
</tr>
<tr>
<td>Unmanned Aerial Systems for Precision Agriculture</td>
<td>1.80</td>
</tr>
<tr>
<td>Indigenous Development of a Synthetic Aperture Radar</td>
<td>1.70</td>
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<tr>
<td>UAS Airspace Management Solution</td>
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</tr>
<tr>
<td>GreenAI - Software Ecosystem &amp; Sensor Suite</td>
<td>1.00</td>
</tr>
<tr>
<td>Soil Microbes, Nano Fertilizers, Bio-Pesticides</td>
<td>3.50</td>
</tr>
<tr>
<td>High Performance Cloud Computing (HPCC)</td>
<td>2.5</td>
</tr>
<tr>
<td>250 Hydroponic Farms</td>
<td>43.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>58.04</strong></td>
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# Project 7  NED TECHNOLOGY PARK

## Additional Information Project Cost Overview

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $ million</th>
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<tbody>
<tr>
<td>Project preparation</td>
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<tr>
<td>Land acquisition</td>
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<tr>
<td>Construction</td>
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<tr>
<td>Project management</td>
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</tr>
<tr>
<td>Interest</td>
<td>N/A</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>55.74</strong></td>
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</table>
### Additional Information Project Cost Overview

<table>
<thead>
<tr>
<th>Component of the project</th>
<th>Investment cost $ million</th>
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<tbody>
<tr>
<td>Venue Acquisition</td>
<td>Ministry/STZA to Support</td>
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<tr>
<td>Renovation</td>
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<td>Operations</td>
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<tr>
<td>Misc.</td>
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<td><strong>Total</strong></td>
<td><strong>120</strong></td>
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