

Ministry of Information Technology & Telecommunication

DIGITAL PAKISTAN

# Startup Ecosystem in Pakistan

**PTA** 

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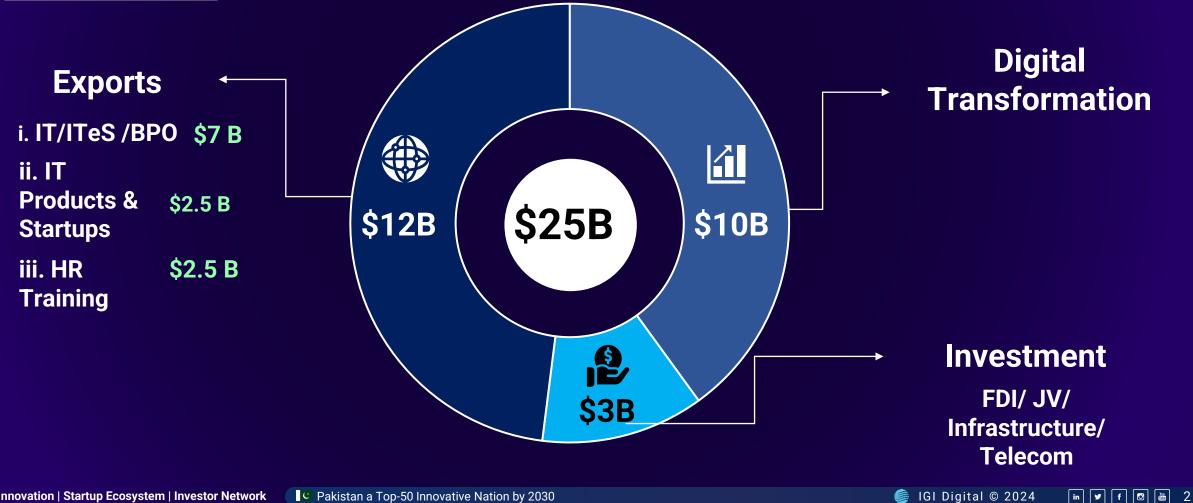


# Prime Minister of Pakistan's IT Vision 2030: \$25B / YR

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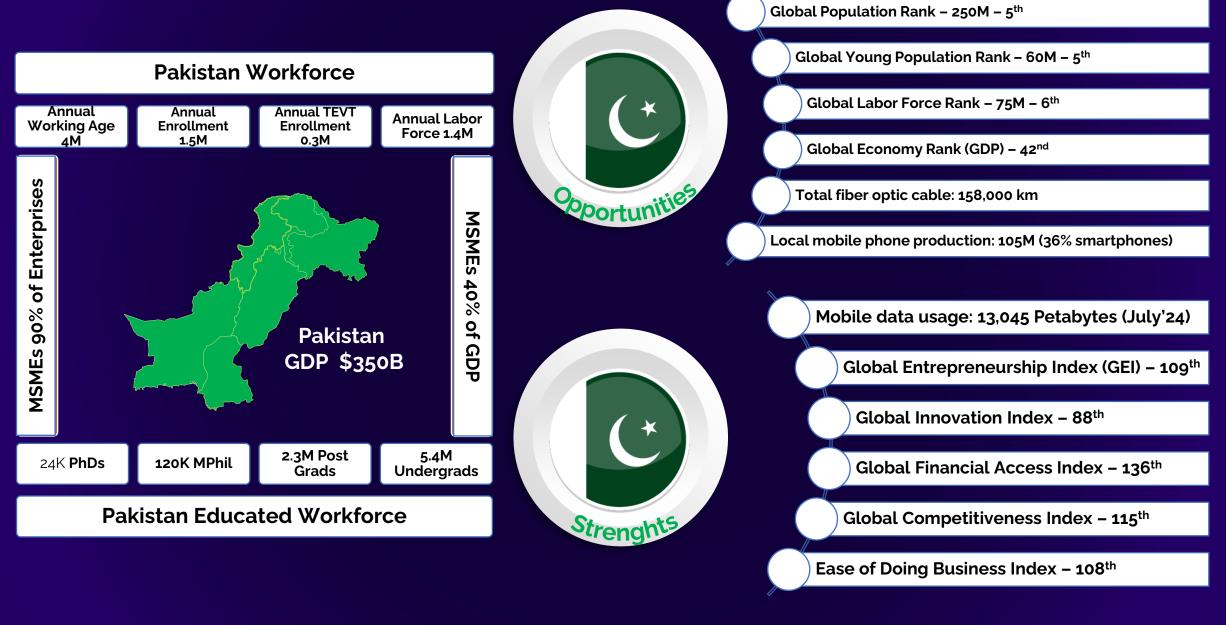
	Programs	Existing Govt Programs	Case Study
Incentivize Product IP Development	Intellectual Property Rights (IPR) Sign Patent Cooperation Treaty (PCT) Non-Tech Corporate Investment Sector	\$5.6M: Accelerator \$.07M: Challenge Driven Innovation Fund \$.05M: Technology Transition Program	Ireland Tax rationalization for R&D
Global Quality & Standards	Cyber Security, ISO/CMMI, Cloud Badges Agile, DevOps, GDPR compliance	\$.05M: Technology Transition Program	India 🛛 🛞 Govt mandated ISO & CMMI
Expand Global Markets Access	5 New Global Trade Offices Business KPIs for Global Trade Offices	\$3.5M: Marketing and Outreach, International Events, National Events	Korea 🏾 🌾 🍣 🕺 Trade offices worldwide
Strengthen Startup Ecosystem	Public Procurement from Startups (20%) Startup Investment Amnesty Scheme	\$16M: NIC Programs \$2.73 BridgeStart Pakistan \$10M: Civic Innovation (DEEP) \$14M: CEGA, VPS \$9.8M: Digiskills, Codiskills	France 25 tech unicorns by 2025
Investor-Friendly Environment	Extend VC exemptions 2035 Operationalize STZA VC Exemptions	\$7M: Pakistan Startup Fund \$0.2M: Investor Awareness	UK Tax incentives for investors

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# Pakistan - Fifth Largest Nation at a Glance



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# **Pakistan – Ready for Digital Disruption**

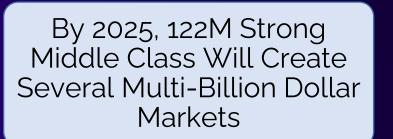
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Consumer Market Rank – \$280B – 29<sup>th</sup>

- Consumer Spending of \$280 Billion
- Multiple Unicorn Startups Potential

According to Boeing, there is demand for more than 43,500 new airplanes through 2040 valued at \$7.2 trillion.

 Pakistan, Aerospace & Defence market size is of \$8.7 billion



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# Pakistan's IT & Freelancing Industry Landscape



# Pakistan rapidly growing (78% annually)

Freelancing booms (\$500M in 1 year)

3 million freelancers estimated in Pakistan

Design & Web Dev top skills in demand

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\$20/hour average freelancer rate estimated

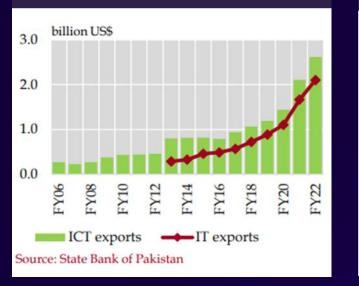
Young freelancers dominate (under 30 years old)

Payoneer: Top payment method for freelancers

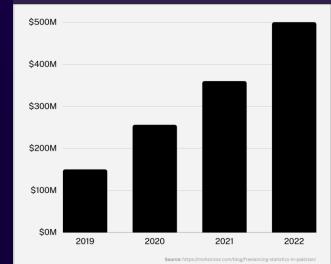
### **Most Popular Freelancing Skills in Pakistan**



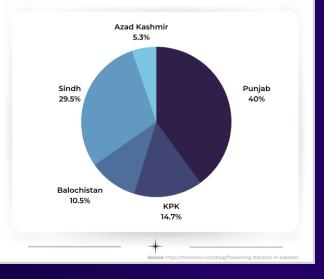
## Pakistan's IT Exports Growth



## **Pakistan Freelance Market Growth**



#### **Regional Freelancing** Stats in Pakistan



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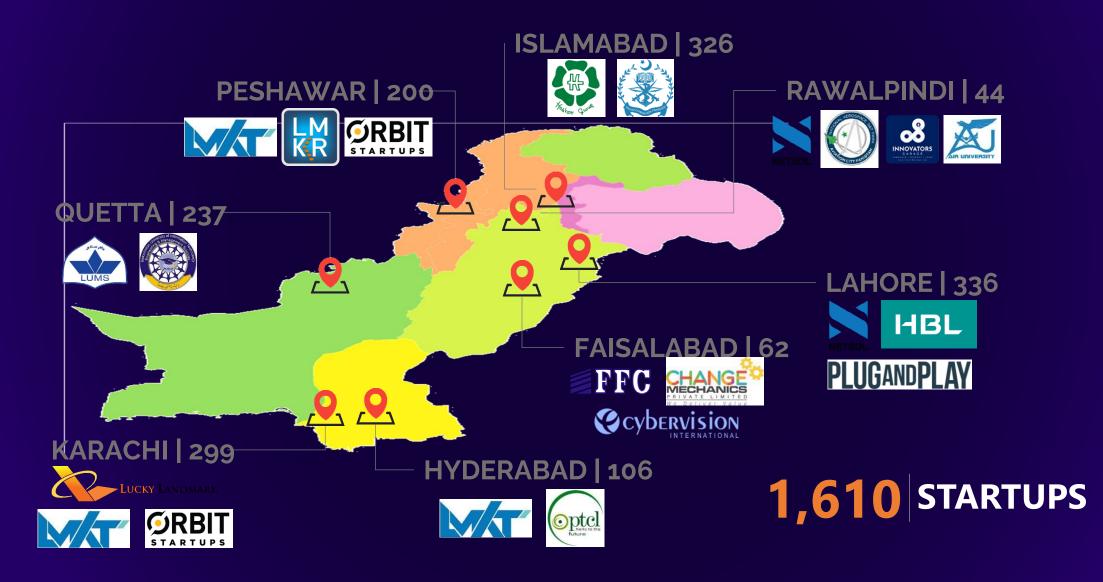




### Leading international VCs invested in Pakistani Startups







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#### Pakistan – Wave of Science & Technology Parks





9 InnoVista Tech Parks across Pakistan to facilitate Freelancers, SMEs, and Startups.

5 NASTP Science & Technology Parks across Pakistan to facilitate Freelancers, SMEs, and Startups.

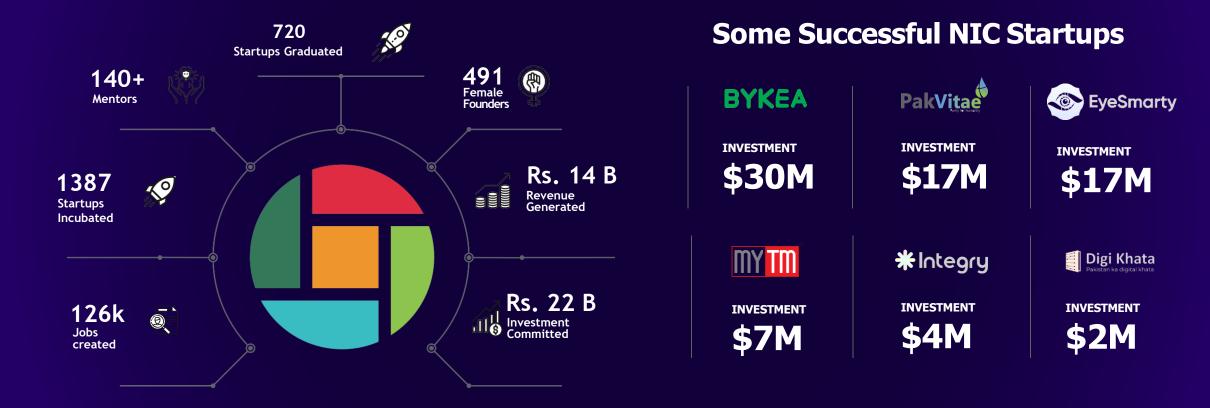
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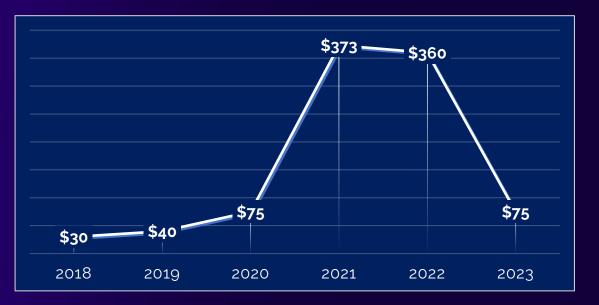


TOP SECTORS IN WHICH PAKISTANI STARTUPS RAISED INVESTMENT DURING 2021 & 2022

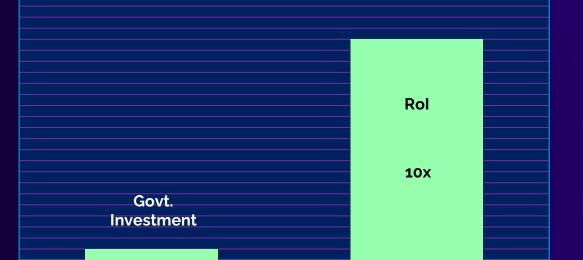
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# Five Government Organizations: Ignite NTF / MoIT, Planning Ministry, HEC, PITB & KPITB invested in Pakistani Startup Ecosystem in last decade.







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# Government of Pakistan invested in under PKR 20B or approx. US\$ 70M-100M. The Rol of Govt Investment in Pakistani Startup Ecosystem is ~10X.

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# Challenges faced – Opportunities for all to solve

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Absence of a comprehensive legal framework: *Regulatory gaps hinder the growth and scaling of tech startups.* 

**Underdeveloped digital payment systems;** Lack of widespread access to secure, modern payment platforms limits digital commerce.

**Opportunity:** Public-private partnerships can lead to the rapid expansion of payment solutions.

Inefficient taxation system: Complicated tax processes and inconsistent policies create barriers for businesses. Opportunity: Simplifying and digitizing the tax system will ease compliance for startups and attract international investors.

Limited formal knowledge transfer mechanisms: Gaps in education and industry collaboration restrict innovation. Opportunity: Establishing industry-academia linkages through knowledge hubs and incubators can foster a robust innovation culture.

**Restricted access to capital and financing:** *Startups face challenges in securing early-stage funding and venture capital.* **Opportunity:** Introducing a Government-backed VC fund or Fund of Funds can provide much-needed capital to scale tech startups.

Weak global networking opportunities: Limited connections with international accelerators and tech hubs slow growth and restrict global expansion.

**Opportunity:** Developing more international collaborations with leading tech ecosystems (e.g., Silicon Valley, London, Indonesia, Singapore, Germany and Sweden) can provide access to global markets and also enable startups to access capital from structured funds and angels.

Talent retention and visa support: Brain drain and limited visa support reduce the availability of high-quality talent for startups. Opportunity: Offering incentives for talent retention and improving immigration policies for tech talent will help retain skilled individuals.

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# The Next Steps: Accelerating Pakistan's Tech Ecosystem

# **Upgrading Digital Infrastructure:**

Expand 5G coverage, increase fiber optic penetration, and improve rural connectivity to ensure nationwide digital access. This will position Pakistan as a global leader in digital connectivity with high teledensity and low data costs.

# **Business Opportunities:**

Leverage the growth of mobile-based startups, fintech, e-commerce, and digital marketplaces. Foster cross-sector partnerships and innovation hubs to drive growth in both local and global markets.

# **Tech Hubs**:

Expand Technology Parks and Science & Technology Zones in key urban centers to attract talent, foster innovation, and secure global investments, creating sustainable economic clusters.

## **Policy and Regulatory Support:**

Implement startup-friendly policies that streamline taxation, support digital payments, and create a conducive environment for local and international investment.

# **Talent Development and Retention:**

Invest in advanced tech education and industry partnerships. Develop policies to retain skilled workers and attract global talent to meet the growing demands of the tech ecosystem.

# **Access to Funding:**

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Enhance access to capital through government-backed VC funds, private investment incentives, and public-private partnerships to help startups scale and thrive.