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	rengths	Weaknesses Opportunities		Threats	
Project Details	 Representation of all provinces Good representation from academia signifies innovation A higher proportion of internal and international funding as compared to national funding More internal funding shows interest from the sustainability perspective More focus on research and implementation n showcases competitiveness More representation from family medicine domain More digital health-based interventions focusing on noncommunicable diseases More interventions targeted at the general population as opposed to any particular age group 	System development not at par with research focus which can impact scalability and sustainability The low representation of specialized field as compared to general health/family medicine. Lack of use of geospatial technology and analysis. Lack of big data sets hence resulting in less efficient data mining machine learning and artificial intelligence models. Two-thirds (66%) of the Pakistani population has functional phones, yet the majority of the interventions were smartphone based Lack of skilled human resources for digital health	 A recent influx of digital health interventions in Pakistan in both implementation and research domain Capacity building opportunities for application system developers Opportunity for open source applications for high accessibility of digital health based interventions The higher opportunity of digital health working with different health domains, both pragmatic and research. Focus on neglected health outcomes like mental health. Higher opportunity to work in maternal newborn and child health Replication of successful digital health projects from other countries. More projects focusing on artificial intelligence/machine learning models. Merging diverse Digital health components can provide more effective results 	Unwillingness towards sharing data for impact maximization Most projects reflecting older/conventional technologies thus risking sustainability and scalability issues Higher in-house development limits value addition and impact More international funding may generate copyrights/IP issues Scarcity of funding Low conversion of digital health-based interventions for scale-up and commercialization. No policy for geospatial mapping at national level Lack of a clear understanding of digital health among key stakeholders. The high cost of digital health among key stakeholders. The high cost of digital health interventions at national and provincial levels. Lack of infrastructure in basic/ primary health units and tertiary centers to	

Low mobile phone network coverage in some areas	implement digital health interventions.

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	Balanced coverage of Interventions from all Socioeconomic classes Application domains comparable to international trends showcase the relevance Balanced representation of both technology hardware and software in digital health interventions Increased technology interventions over time Participant recruitment is more straight forward in Pakistan and thus not identified as a barrier Scalability at the provincial /national level in most projects High ratio of scale-up of completed projects	•	Absence of national digital health framework		and high impact (interoperability)		
	•Availability of technology infrastructure to scale digital health interventions Adequate resource allocations						

	(costs) to various intervention components • Presence of more open source applications			
Project Team Details	Diversity among professionals	Less representation of regularized interventions	Students' involvement can make them career-oriented	Individual developers-led projects may lack the insight of a health care professional regarding healthcare needs and challenges and vice versa

	Reflects better collaboration The abundance of IT experts ensures intervention is technologically sound and has excellent reliability.	shows gaps at the governance level . • The low representation of individuals with a research background in the team, IT experts and clinicians may not have the skills to evaluate the impact of the project	Towards digital health, medical, and engineering. The curriculum should teach digital health and its significance Collaboration across sectors to utilize each other's expertise — including Academia, pragmatic and industry More involvement professional from both Healthcare and Engineering in Digital health	
Project Evaluation	 A higher proportion of evaluation of studies/ projects for digital health A high proportion of projects at scale up stage 	Data not reported or published at national or international forums	 Availability of relevant tools for study evaluations including big data. Application of artificial intelligence/ machine learning in future digital health projects Installation and setup of app/project to a national database 	 Reliance on conventional tools Restricted access to projects to the national database Risks arising from lack of structured programs/certifications for managing large data sets Low evidence-based evaluation of digital health interventions

Ethics in	• Responsiveness	• Around 1/10th (Commercialization / generalization of scale-up projects Stringent monitoring and reporting Standardization of	Lack of proper ethical
Digital health	s towards ethical requirements Data access restricted to relevant personnel Mindfulness towards data retention and archiving.	10%) of the studies/project s didn't administer consent • The low representation of government regulators within regional ethical committees.	consent forms and procedure The national body regulating ethical challenges related to digital health Develop regulations for formally initiating digital health projects.	regulatory framework to determine if consent is required or not and data retention policy Local institute committee can influence/bias ethical decisions