



Community Connect: Operationalising CDIO through Challenge-Based Learning for Socially Responsible Engineering Education

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Community Connect Model

Community Connect is a Challenge-Based Learning course that enables engineering students to work with communities and NGO/NPOs to address real societal problems. Through interdisciplinary collaboration, students apply CDIO principles to conceive, design, implement and deliver sustainable solutions, while developing technical competence, social responsibility, ethics and a deeper understanding of community needs.



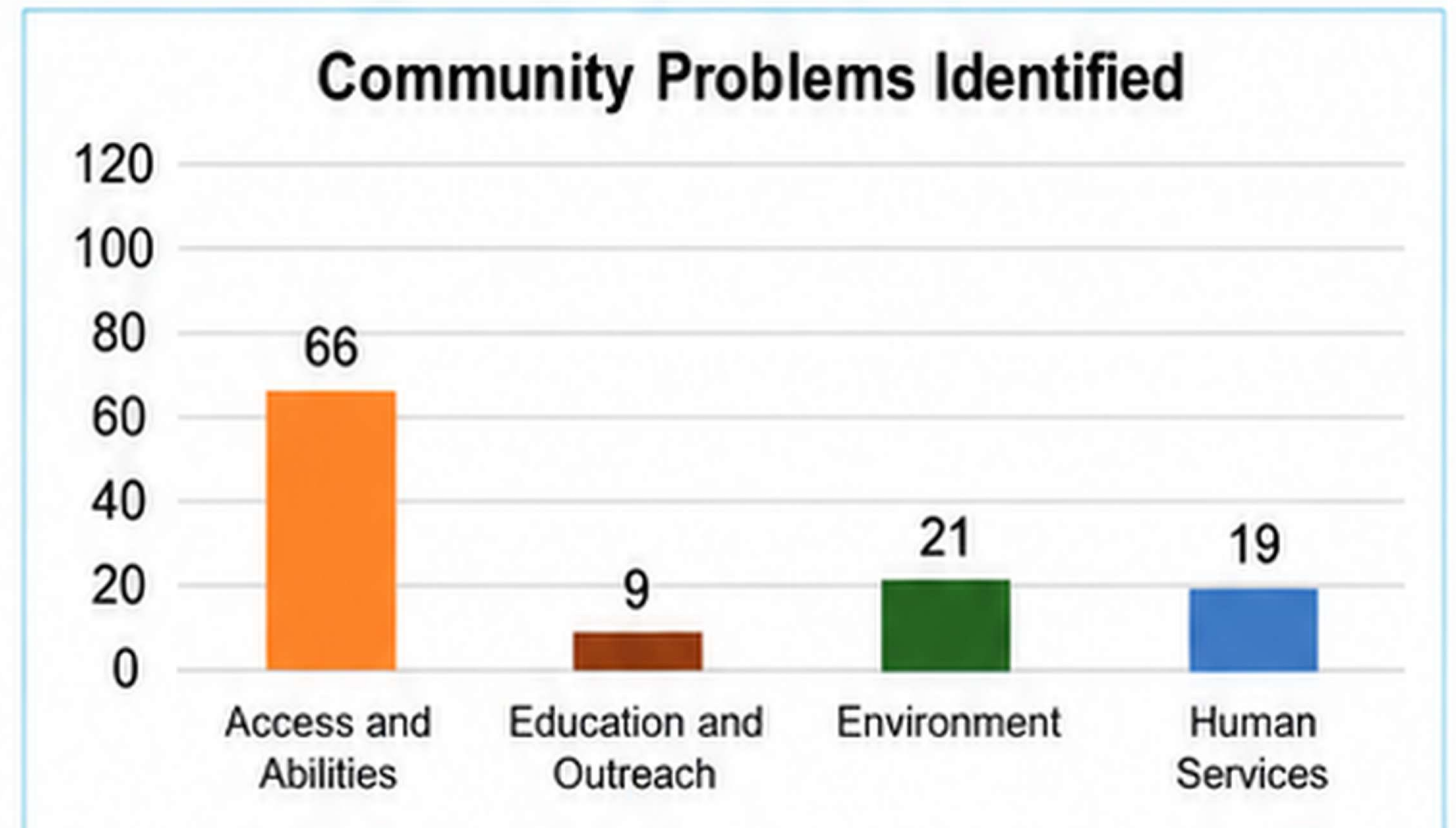
Community Connect model showing the key steps from community engagement to delivery of sustainable solutions.



Students working in interdisciplinary teams to design and develop assistive mobility solutions for community use.



Students interacting with differently-abled students to understand their needs and co-create appropriate solutions.



Distribution of 115 community engagement projects across key themes.



Differently-abled student using a computer-based solution developed through Community Connect for improved learning access.



Community members using the developed solution, demonstrating real-world impact and improved learning outcomes.