



SNS COLLEGE OF TECHNOLOGY

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Approved by AICTE, New Delhi, Recognized by UGC, Affiliated to Anna University, Chennai

Department of Computer Applications

Grassroot Innovation

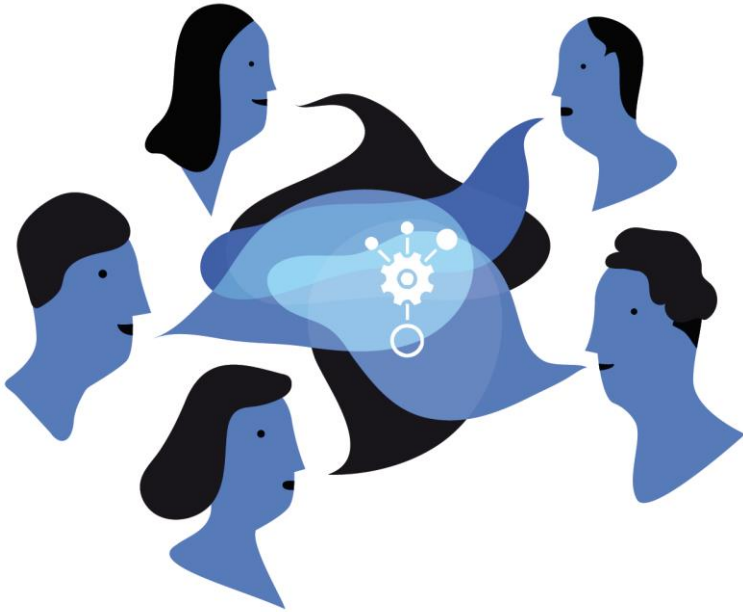
COURSE : 23CAT608- ENTREPRENEURSHIP DEVELOPMENT

UNIT II : PROJECT PLANNING

CLASS : I MCA / II SEMESTER



Grassroots Innovation



It refers to the development of new solutions or ideas by local communities, often driven by the need to solve practical, everyday problems.

Key Features:

- Locally driven
- Resourceful and affordable
- Focuses on immediate, practical needs



Key Drivers of Grassroots Innovation



Manihar Sharma, a 65-year-old Manipuri invented a **solar powered silk reeling** machine

22 Yr old Imli Toshi from Nagaland is a post-graduate in computer applications developed **Water lifting vane pump**



Community Needs: Local problems drive innovation.

Resource Constraints: Limited resources push for more efficient and cost-effective solutions.

Cultural Knowledge: Local traditions and knowledge contribute to unique solutions.

Collaboration: Cooperation within communities or with external actors often drives innovation



Key Drivers of Grassroots Innovation

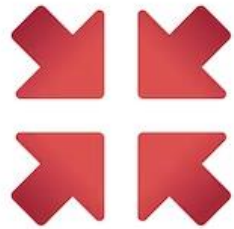


- **Community Needs:** Local problems drive innovation.
- **Resource Constraints:** Limited resources push for more efficient and cost-effective solutions.
- **Cultural Knowledge:** Local traditions and knowledge contribute to unique solutions.
- **Collaboration:** Cooperation within communities or with external actors often drives innovation
- **Sustainability Transitions:** Plays a role in driving sustainable development by promoting local solutions and addressing environmental and social issue





Goals of GREEN Technology



REDUCE

- Fuel
- Waste
- Energy consumption
- Using clean water
- Purchasing



RECYCLE

- Paper
- Plastic
- Batteries
- Clothing

RENEW

- Wind power
- Water power
- Solar
- Bio-fuel
- Waste water

RESPONSIBILITY

**RADICAL
THIKING FOR
FUNDAMENTAL
CHANGE**



Grassroots innovation



Grassroots innovation

- Voluntary generation and development of innovations by any member of an organization, regardless of function or seniority
- community-led solutions for sustainability

Grassroots innovator

- Networks of activists and organizations generating novel bottom–up solutions for sustainable development;
- solutions that respond to the local situation and the interests and values of the communities involved

A simple but effective solution to any major problem is not considered as an accomplishment



Grassroots innovation



Pochampally sarees

5 Hour work is replaced with 1.5 Hrs

Growing ladies' fingers around a cotton crop to prevent pests from attacking the cotton

Handloom weaver Chintakindi Mallesham Made the machine

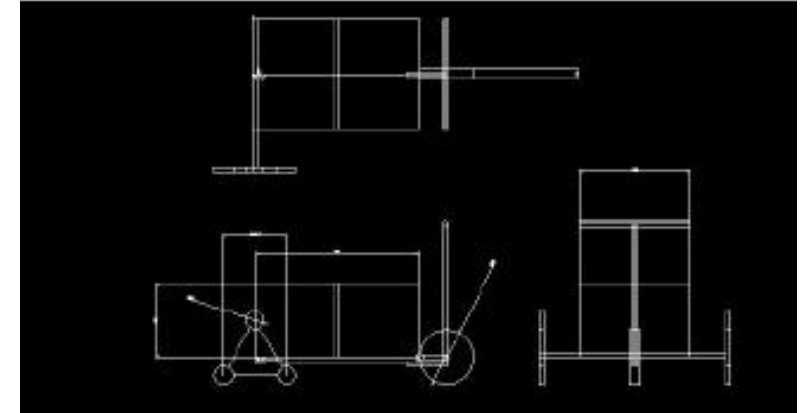
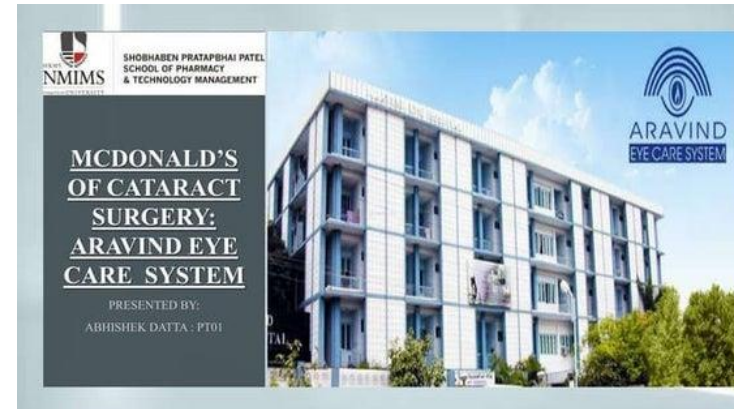
More than 90% of the products in grassroots innovations use second-hand components.



Grassroots innovation



Panihari of Khimjibhai Kanadia



Hill trolley with triangular wheels. By



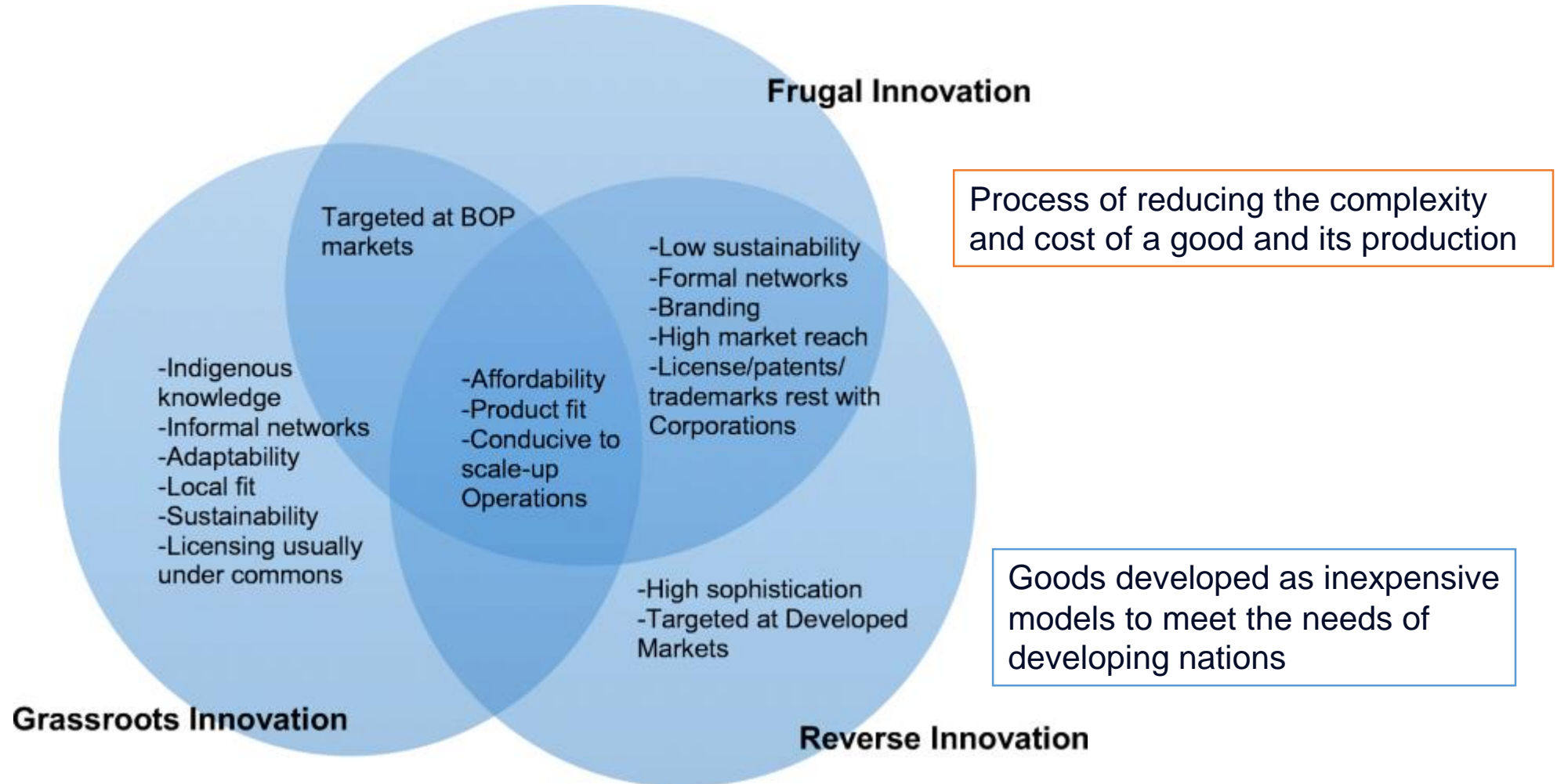
Understanding Grassroots Innovation



- The grassroots innovators deal with such inertia during design, failure at various stages, or delivery every day.
- They succeed in overcoming it by persisting, pushing through different problems, and coming up with a solution
- Many grassroots innovators share their knowledge without expecting anything in return



Comparison





Grassroots innovation - Acceleration



- Encourage local governments to become an active stakeholder
- Foster a grassroots community to share research, know-how and talent
Provide technological mentorship towards advancing a circular economy
- Correct systemic racism, injustice and oppression
- Measure the impact made on marginalised youth at an interdisciplinary level
- Localise the context of solutions to support disadvantaged communities
- Mobilise academia and youth to keep driving the momentum forward
- Become a global thought leader in inter-generational innovation



Thank
you