

# Bridging the Gap

Posted at: 05/08/2025

## Bridging the Gap: Informal Repairers in a Formal Digital India

---

### Context

India has recently accepted a **proposal to introduce a Repairability Index** for electronic products. This is seen as a major step toward formalising the **Right to Repair** as a consumer right. However, concerns are being raised that India's **informal repair ecosystem**, which is rich in tacit and intergenerational knowledge, is being **excluded from digital and AI policy frameworks**.

---

### Introduction

The **Right to Repair** refers to the legal right of consumers to **repair, modify, or access affordable third-party services** for the products they own. Globally, there is increasing recognition of this right, especially in the context of **sustainability and digital justice**. While India has initiated steps to recognise this right, experts argue that policy efforts must move beyond consumer rights to include **repair as a knowledge system, livelihood source, and cultural practice**.

---

### Understanding the Right to Repair

- It gives consumers the freedom to **repair or modify** their products, either on their own or through third-party services.
- The **European Union** mandates access to spare parts and manuals for various electronics.
- Several **U.S. states** and the **UN SDG 12** promote repair to reduce e-waste and extend product life.
- In India, the **Department of Consumer Affairs** launched the **Right to Repair Portal in 2023**, covering electronics, automobiles, and agricultural equipment.

---

## Why Repair Must Go Beyond a Consumer Right

- **Informal repair knowledge** is acquired through experience, observation, and mentorship, not through formal certification.
- Areas like **Karol Bagh (Delhi)** and **Ritchie Street (Chennai)** are hubs of such intergenerational expertise.
- Repair practices reflect India's culture of **jugaad, frugality, and resourcefulness**, helping reduce **e-waste** and extend the life of products.
- The **informal repair workforce**, although central to the **circular economy**, remains **excluded from labour laws and policies**.
- Local repair practices are part of India's **indigenous technological knowledge** and reflect **regional innovation** and **adaptive reuse**.
- A growing trend towards **sealed products and disposable culture** is reducing public **repair literacy** and weakening community-based knowledge systems.

---

## Gaps in Current Policy Frameworks

- The **E-Waste Rules 2022** focus mainly on recycling and fail to prioritise **repair as the first step in waste reduction**.
- **Skill development programmes** like **PMKVY** are too rigid and not suited for the improvisational nature of real-world repair work.
- **AI and Digital Public Infrastructure** frameworks emphasise structured data but ignore **informal, human-led repair knowledge**.
- While the **National Education Policy 2020** promotes experiential learning, it fails to classify **repair work as a legitimate skill**.
- There is **no legal recognition** or certification pathway for informal repairers, limiting their access to formal employment or digital inclusion.

---

## Towards a Sustainable and Inclusive Repair Ecosystem

- Include **repairability standards** in **AI systems**, **hardware designs**, and **public procurement policies**.
- Expand the scope of the **Right to Repair** by classifying products based on **repairability**, and ensuring access to manuals and parts.
- Recognise informal repairers through platforms like **e-Shram**, and offer **custom training modules** tailored to their methods.
- Use **AI tools** such as large language models and decision trees to **digitally preserve and share tacit repair knowledge**.
- Coordinate policy efforts across ministries like **MoLE**, **MeitY**, and **MoRD** to create a **unified framework** that values repair as both labour and knowledge.

---

## Significance for India's Development

- Strengthens commitments to **Sustainable Development Goals**, particularly **SDG-12**, and supports **Mission LiFE**.
  - Enhances the **dignity and visibility** of informal workers by recognising them as skilled contributors.
  - Promotes **digital inclusion** by ensuring that human knowledge is not excluded from the AI-driven future.
  - Encourages **economic empowerment** by bridging the gap between grassroots innovation and national digital ambitions.
  - Establishes India as a **global leader** in building a sustainable, repair-inclusive **circular economy**.
-

## Conclusion

As India progresses in building robust **AI and digital public infrastructure**, repair should be viewed not just as a **consumer right**, but as a **national responsibility**. Recognising and integrating the **silent, generational wisdom** of informal repairers is essential to creating an **inclusive, sustainable, and just technology ecosystem**. As **Michael Polanyi** observed, “*We know more than we can tell.*” India must value and preserve what it cannot afford to lose.



**AKKA IAS ACADEMY**  
[www.akkaids.com](http://www.akkaids.com)