

TSI Tech Solutions Cooperative Foundation
A Section 8 Company

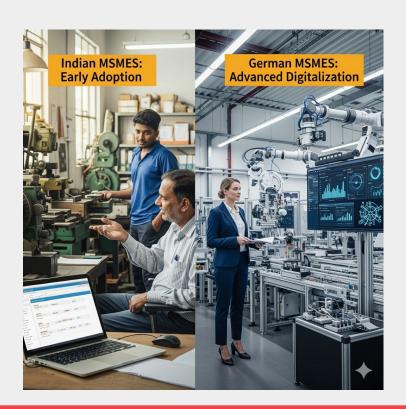
Boosting digital adoption of MSME ecosystem; Creating high quality pathways for tech professionals

### FOSS for boosting digital adoption in MSMEs

#### **Key Discussion Points:**

- **Premise:** Digital adoption gap in MSMEs An illustration
- The Problem: Why MSMEs are hesitant to adopt digital tools, focusing on the barriers of cost, mistrust, and vendor lock-in.
- **The Solution:** How FOSS directly addresses these challenges by offering cost-effective, flexible, and transparent alternatives.
- TSI Coop R&D: A brief introduction to our Enabler R&D initiatives, including our open-source projects like the TSI DPDP Consent Management System and TSI Digital ID Vault.

# Digital Adoption Gap in MSMEs - An illustration



35%

80%

# **Digital Adoption Gap in MSMEs**

	India:	Germany:
Feature	Foundational Digitization	Advanced Digital Transformation
Primary Goal	Efficiency & Market Access	Optimization & Innovation
	ERP, E-commerce, Digital	
Key Tech	Payments	IIoT, Robotics, Digital Twins
Main Challenge	Capital & Skills Gap	Cybersecurity & Talent Shortage
Maturity	Early Stage	Highly Advanced (Industry 4.0)

# The MSME Digital Dilemma



**Aspiration:** Every MSME owner wants to grow and compete, and they know digital is the key. They aspire to be a "smart" business. .

**Reality:** Despite this desire, adoption rates remain low. The journey is often perceived as too expensive, too risky, and too complex.

#### The Three Barriers:

- The Cost Trap: Digital tools are seen as expensive, with unclear and slow returns.
- The Trust Deficit: Businesses fear vendor lock-in, data misuse, and unreliable support.
- The Complexity Barrier: The digital landscape is overwhelming, and they don't know where to start.

### The ingredients for success



- **Sound Tech Strategy:** Every MSME needs a trustworthy guide to navigate a complex and often intimidating digital landscape. The advisor should help in putting together a sound IT strategy.
- Trustworthy & Knowledgable Local Partners: Local service providers who offer ready-to-deploy solutions and niche skills are essential for on-the-ground support and long-term success.
- **Lean Inhouse Team:** A small, focused team with experience in applications, data infrastructure, and security is crucial for successful implementation and maintenance.
- **FOSS & Customization:** Open-source software provides a flexible and affordable foundation that can be customized to fit unique business needs without vendor lock-in.

#### **FOSS Advantage**



- Cost-Effective: FOSS eliminates licensing fees, making advanced tools accessible even for businesses with a tight budget.
- **Flexible & Transparent:** The source code is open, which means no vendor lock-in. Businesses can customize solutions and audit the code for security.
- Community-Driven: FOSS is built and supported by a global community of developers, ensuring continuous improvement and robust alternatives to proprietary software.

"Frappe / ERPNext: A powerful, open-source ERP that helps MSMEs manage everything from sales to accounting, offering an alternative to expensive legacy systems."

### TSI Coop: Enabler R&D



We don't build final products. We build the foundational tools, systems, and knowledge that enable the ecosystem to create solutions.

#### **Focus Areas:**

<u>For Associations & Enablers:</u> An open source solution, TSI Digital Hub, that [A] Aggregate solutions, services & talent [B]. Engage via Enquiries, RFPs, Job Postings etc [C] Facilitate Digital Maturity & Capability Assessments [D] Offer community support

<u>For Small & Medium Enterprises</u>: Open-source solutions like the TSI DPDP Consent Management System and TSI Digital ID Vault to address major pain points and compliance needs.

<u>For Nano & Micro Enterprises</u>: We will create simple utility apps that seamlessly power their day-to-day workflows, making their first digital steps easy and effective.

### **TSI Digital Hub**



A ready-to-deploy, open-source digital hub for industry associations to drive digital transformation

#### Boosting digital adoption via ecosystem enablers



Aggregate solutions, services & talent



Engage via Enquiries, RFPs & Job Postings



Facilitate Digital Maturity & Capability Assessments



Offer community support

# **TSI Digital ID Vault**



Secure Vault for Personal Identifiers such as Aadhaar ID, Voter ID and Abha ID

A robust, secure and compliant ID vault



Free and Open Source Software (FOSS) library



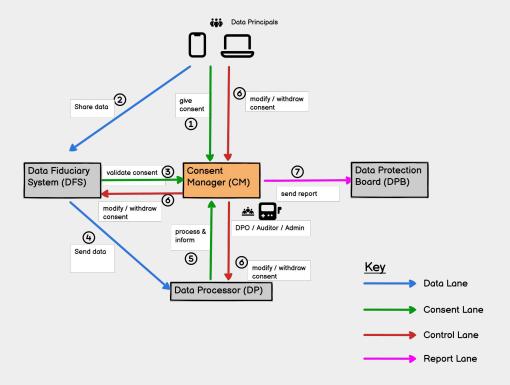
API first



Customizable to your needs

### TSI DPDP Consent Management System





Our solution is developed as a simpler open source reference implementation under MIT License that can be deployed out-of-the-box by a smaller Consent Manager or Consent Aggregator serving the Indian MSME ecosystem.

We're looking for help with our MSME needs mapping, Digital Maturity Assessment & Technical support (bug fixes and feature development). Your contributions would make a big difference!

### **Contact Us**

Satish Ayyaswami

admin@tsicoop.org

# MSME FOSS Stack from MSME Capital of India