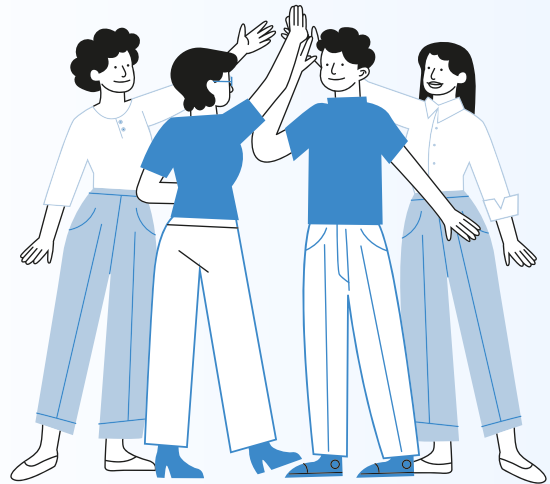


Global Catalog Registry

Transforming Online Shopping

No More Hassle – Just Seamless Shopping



Team Members -

[Ayush Thakur, Swapnil Gupta, Jatin Yadav, Harsh Jat]

DebugOn (ONDC X BECon'25 Hackathon)

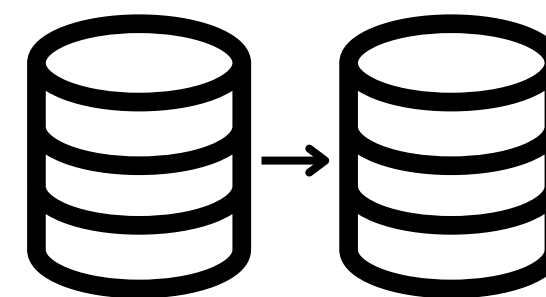
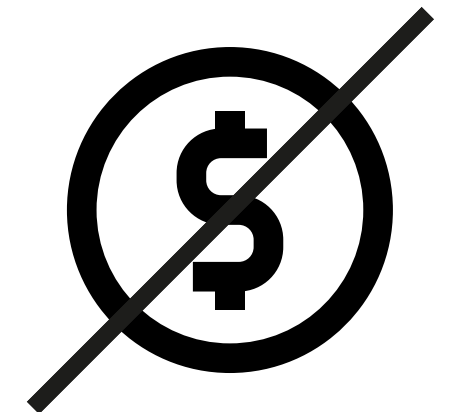
TheNoobs



Problem Statement

The Current Challenges in Catalog Management

- **Inconsistent user experiences** on buyer apps due to fragmented catalogs.
- **High computational costs** in the NxN model.
- **Lack of centralized storage** leading to redundancy.
- **Inefficient catalog** updates and integrations.



Data

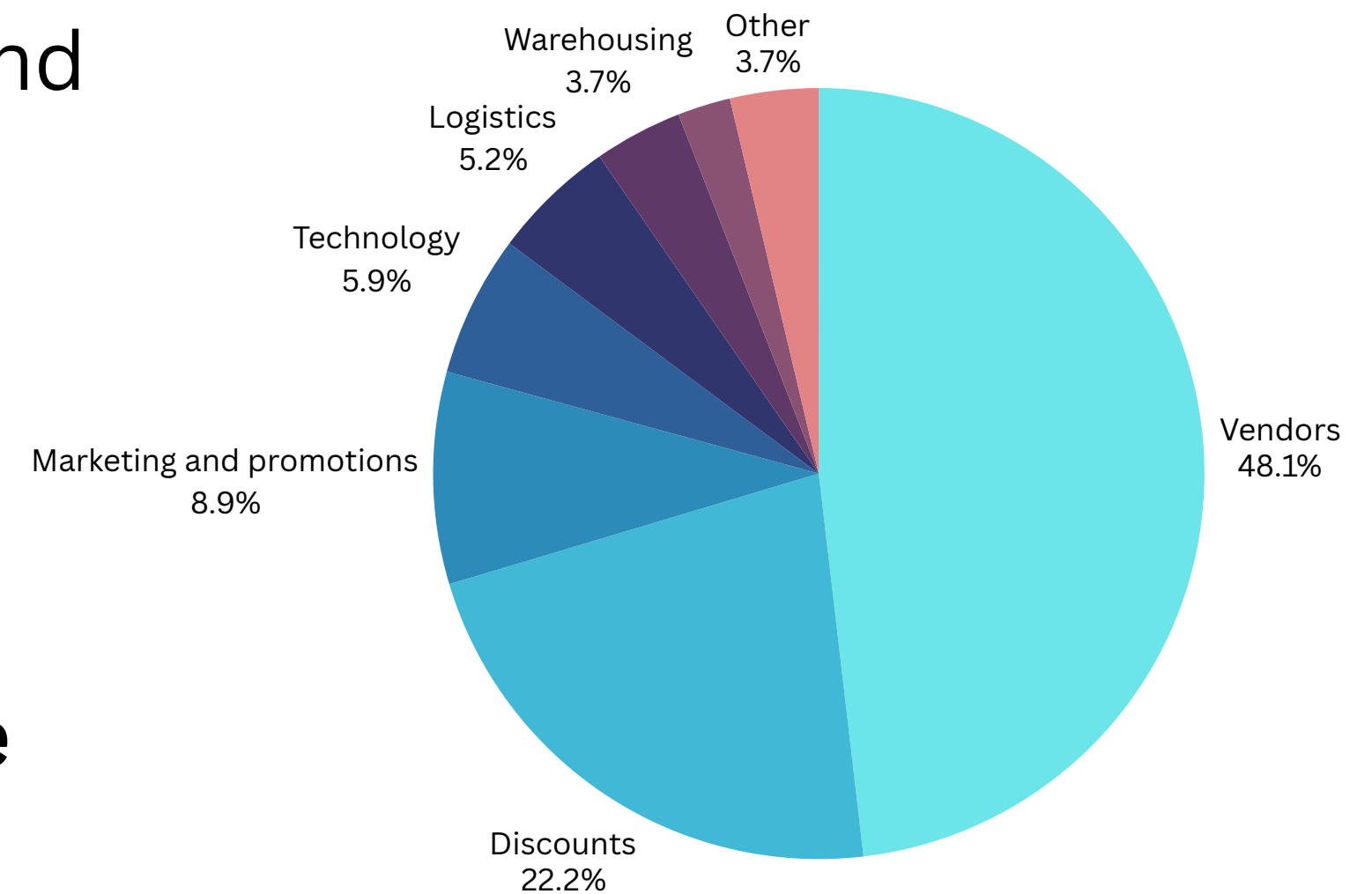
Mirrored
Data

~~NxN~~

Market Analysis

The Need for a Unified Solution

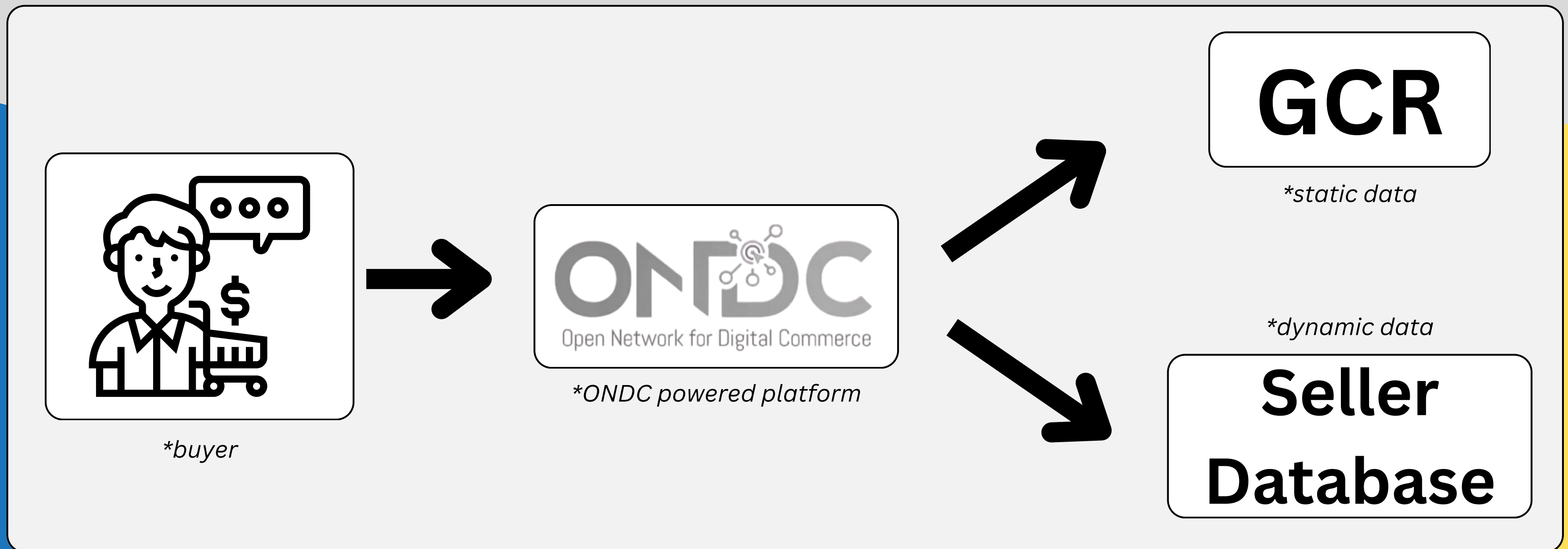
- Growing e-commerce sector and demand for **seamless online shopping experiences.**
- Market size and opportunity: **Revolutionize 63 million MSMEs.**
- Need for cost-efficient catalog management to **benefit small and large sellers alike.**



E-commerce Expenses

Wireframes

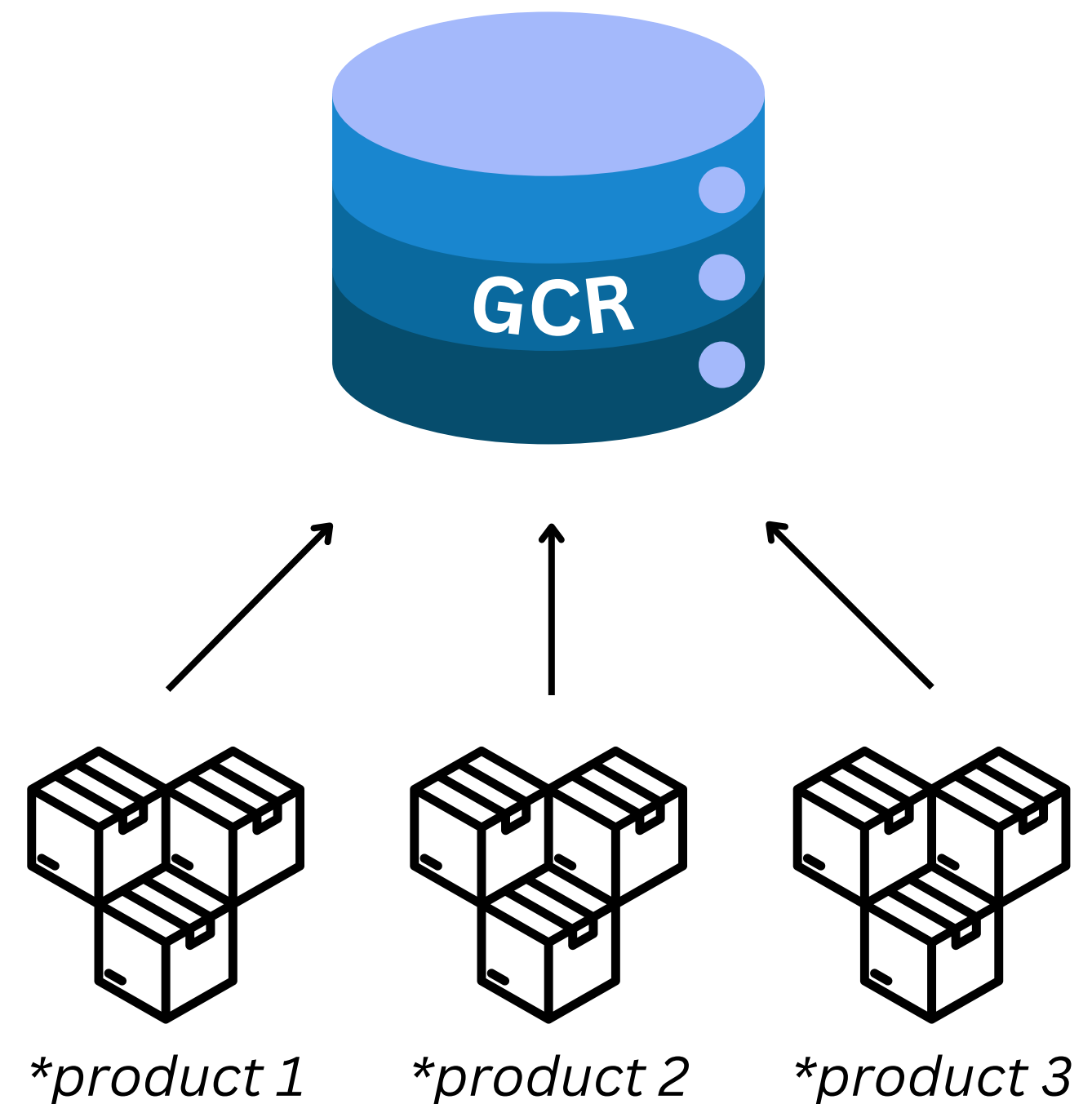
Simplified architecture of GCR implementation



Solution Overview

Global Catalog Registry (GCR): Centralizing Product Data

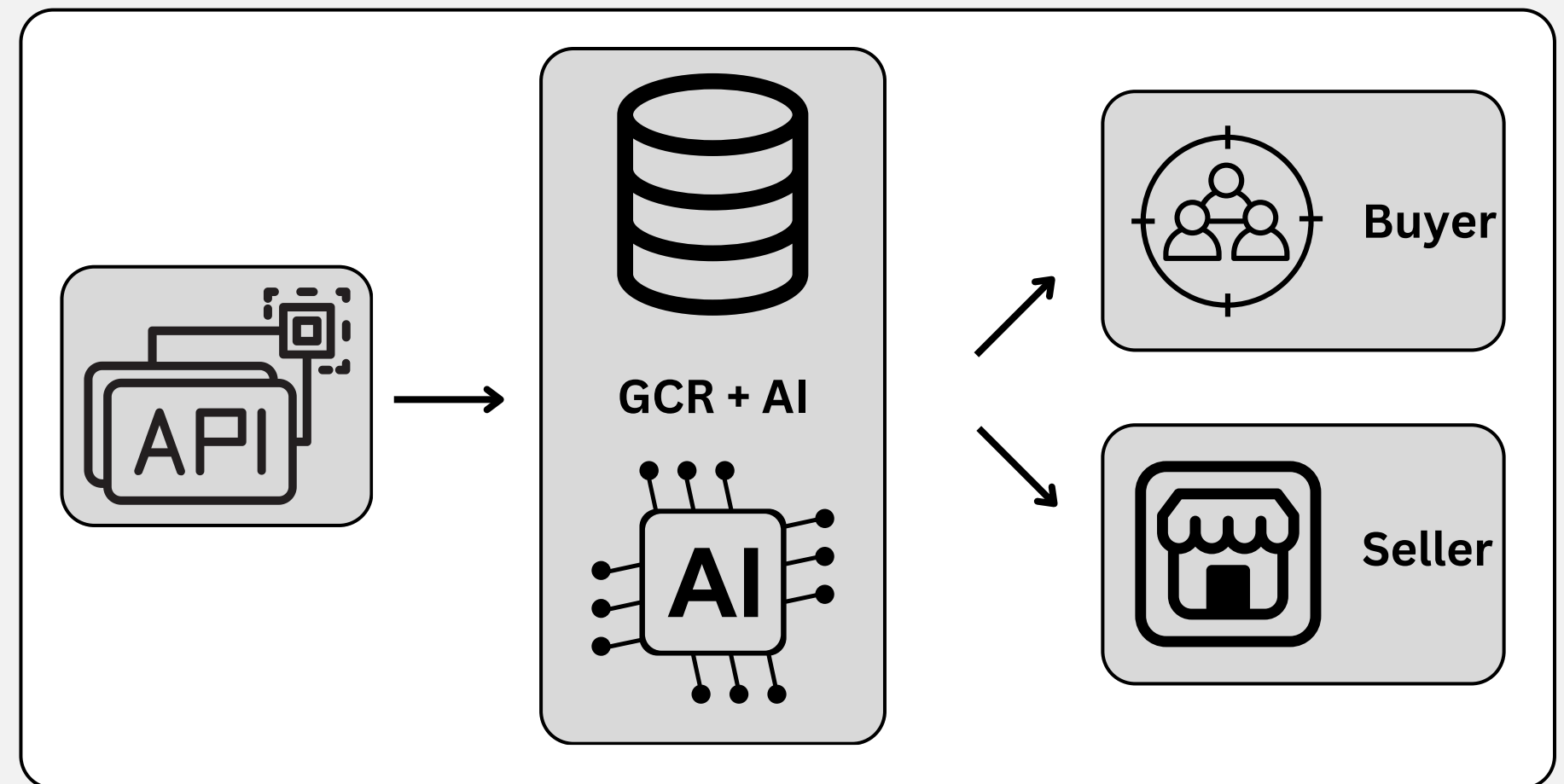
- **Centralized repository** to eliminate inconsistencies and redundancies.
- **Dynamic Data Integration** which links to seller databases for real-time updates.
- **Unique Product-Seller Mapping** connects products using unique IDs to multiple sellers.



Technical Architecture & Feasibility

Global Catalog Registry (GCR): Centralizing Product Data

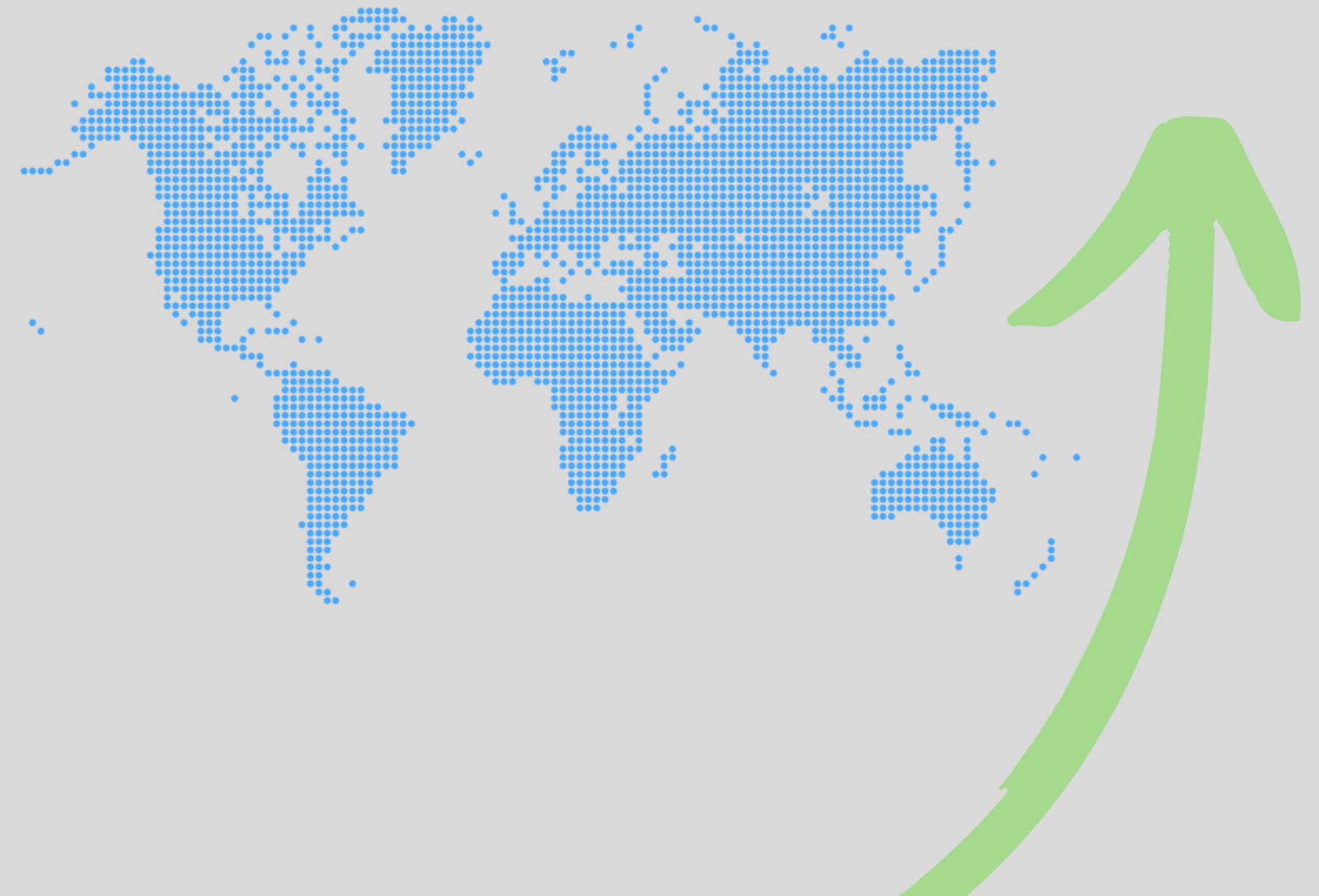
- **API-based integration** for buyer and seller apps.
- **AI module** for dynamic product descriptions and updates.
- **Scalable database** structure to handle large catalog volumes.



Scalability

Built to Grow with the Market

- **Modular architecture** supports integration with new platforms and apps.
- **Efficient Storage Model:** product data is stored centrally and dynamic seller data is fetched on demand.
- **Efficient Data Retrieval** as GCR uses API calls to fetch only necessary data from seller databases to minimize load and latency.



Alignment with ONDC's Goals

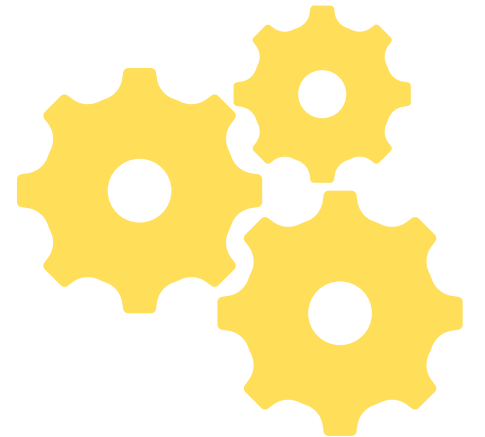
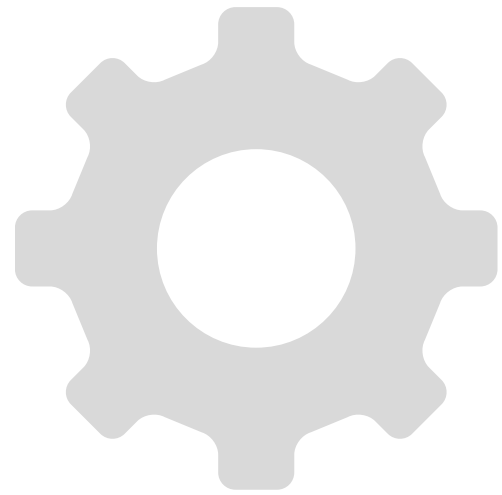
How GCR Supports ONDC's Vision

- ✓ **Interoperability:** Unified catalog accessible by all apps.
- ✓ **Cost Efficiency:** Reduces redundancy and storage overhead.
- ✓ **Inclusivity:** Enables small businesses to digitize catalogs effortlessly.
- ✓ **Customer Experience:** Improves accuracy and consistency across platforms.



Impact of AI-Generated Descriptions

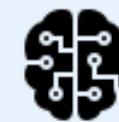
AI Enhancing User Experience and Operational Efficiency



- Ensures **consistent, optimized descriptions** for all products.
- **Reduces manual effort** for sellers while improving buyer experience.
- **Adapts dynamically** to changing product attributes.

*instance of feature from prototype

AI-Generated Description



Experience the Pixel 8 Pro: stunning camera with magical photo editing, lightning-fast performance, and a sleek design. Its advanced AI smarts make everyday tasks easier, while a long-lasting battery keeps you going. Unleash ultimate smartphone power – simply brilliant.

Thank You

Let's build the future of shopping together.

