

# **Ideas for a Better World: A Technologist's Blueprint**

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## **Introduction**

Originally published in 2017 as “Ideas to Change The World”, the first edition of this book discussed pressing problems faced by both developed and developing nations, offering creative solutions for its time. However, the technological landscape has shifted dramatically. The rise of artificial intelligence, the Internet of Things (IoT), blockchain, ubiquitous high-speed connectivity, and advanced robotics has unlocked possibilities that were once the realm of science fiction.

This enriched 2025 edition revisits the original problems and introduces new ones, proposing a fresh wave of solutions powered by today's cutting-edge technologies. The goal is not just to solve problems but to fundamentally rethink how our societies function. From creating truly intelligent cities to ensuring personal security and promoting global equity, the ideas within this book are

designed to inspire a new generation of innovators, entrepreneurs, and policymakers.

Some of these ideas can be converted into multi-million dollar products and services. More importantly, they can serve as a blueprint for a future that is more efficient, sustainable, and humane.

## **Part 1: Problems Faced by Developed Countries**

### **1. Seamless Inter-Device Connectivity**

Original Problem: People owning multiple smart devices cannot easily copy and paste text or files between them. Original Solution: Use Bluetooth to send content to a paired device's clipboard. The 2025 Solution: The Ambient Computing Cloud Universal Clipboard & Cloud Sync: Modern operating systems (like Apple's Handoff and Microsoft's Cloud Clipboard) have already implemented this. The next evolution is a truly platform-agnostic, ambient computing experience. A user's workspace, including clipboard history, open applications, and files, will be synchronized in real-time across all their devices (phone, laptop, tablet, smart glasses, car) via a secure personal cloud. AI-Powered Predictive Transfer: Your devices will anticipate your needs. For instance, if you copy an address on your laptop, your car's navigation system will automatically ask if you want to set it as your destination. If you copy a product link, your smart glasses could show you its price in a nearby store.

### **2. Large-Scale Data Transfer Failures**

Original Problem: Copying large directories often fails due to space, memory, or connection issues. Original Solution: Prioritize copying important files first. The 2025 Solution: Intelligent & Decentralized

Data Management Cloud-Native Storage: The primary solution is to move away from local transfers. Cloud storage services (Google Drive, Dropbox, OneDrive) are now the default. For massive datasets, services like AWS S3 and Azure Blob Storage offer robust, high-availability solutions. Delta Synchronization & P2P: For local network transfers or situations with limited bandwidth, modern tools use delta synchronization (only transferring the changed parts of files) and peer-to-peer (P2P) protocols to distribute the load and increase resilience. If one transfer path fails, the system can reroute through another.