Enterprises need to keep up with the demands of business in a globally electronically-connected world.

To handle shifting external forces, such as geopolitical and economic changes, and internal market forces, such as logistics, inventory, and operational costs, enterprises must act on these changes as they happen.

To keep up with the pace of business demands, companies need to:
- **Identify and track the risk on the ground**
- **Automate decision generation and action**
- **Support just-in-time tactical decisions**

**Extreme Transaction Processing**

**What is extreme transaction processing?**
- Capturing enormous amounts of concurrent transactions in a large and rapidly growing database
- Keeping up with the speed of business, but also possessing full data consistency and zero data loss
- Having instant failover and high-availability support

**Extreme Transaction Processing in Action: Real-Time Railroad Ticketing**

**GOAL:** To relieve station congestion and ensure better service.

**ACTION:** Replace inflexible unreserved ticketing system with one that issues tickets dynamically.

**SOLUTION:** Travelers buy tickets at a variety of electronic kiosks and vending machines. Ticket purchases and cancellations are processed and coordinated nationwide to ensure ticket validity and prevent fraud in real time.

**HOW IT WORKS:** OLTP database technology, with the database servers linked by dynamic and reliable database replication technology.

**What SAP Can Help: The Right Mix of Database Technologies**

**SAP HANA:** A memory-optimized database keeps the most vital data in main memory to process queries fast enough to ensure real-time performance.

**SAP ASE:** A disk-optimized transaction database processes updates at the same pace, with support for very large numbers of concurrent sessions.

Together, SAP HANA and SAP ASE provide a recipe for high performance in transaction processing. Developers can achieve a level of query performance not possible with a disk-optimized database, while providing the ability to gather data in real time for immediate and actionable analysis.

**The SAP Data Management portfolio meets these requirements.** Adapted from the IDC White Paper, "Ensuring Competitiveness and Agility in a World of Constant Motion: Extreme Transaction Processing from SAP," sponsored by SAP.