



SMART MONITORING, CONTROL AND BIG DATA ANALYTICS FOR INDUSTRIAL IOT

mPrest
CONNECTING THE DOTS

“The enormous promise of Industrial IoT relies on smoothly integrating disparate systems, sensors and disciplines while managing the exponential growth of connected devices.”

Natan Barak, mPrest CEO

Industrial IoT as a Catalyst for Business Transformation

The Industrial Internet of Things (IIoT) has been heralded primarily as a way to improve operational efficiency, enable predictive maintenance and reduce risk and costs. But in today's business environment, the IIoT is a key enabler of new growth opportunities based on innovative digital products and services. Not surprisingly, demand for IIoT platforms and applications continues to escalate, with worldwide IIoT spending expected to exceed \$500 billion by 2020.

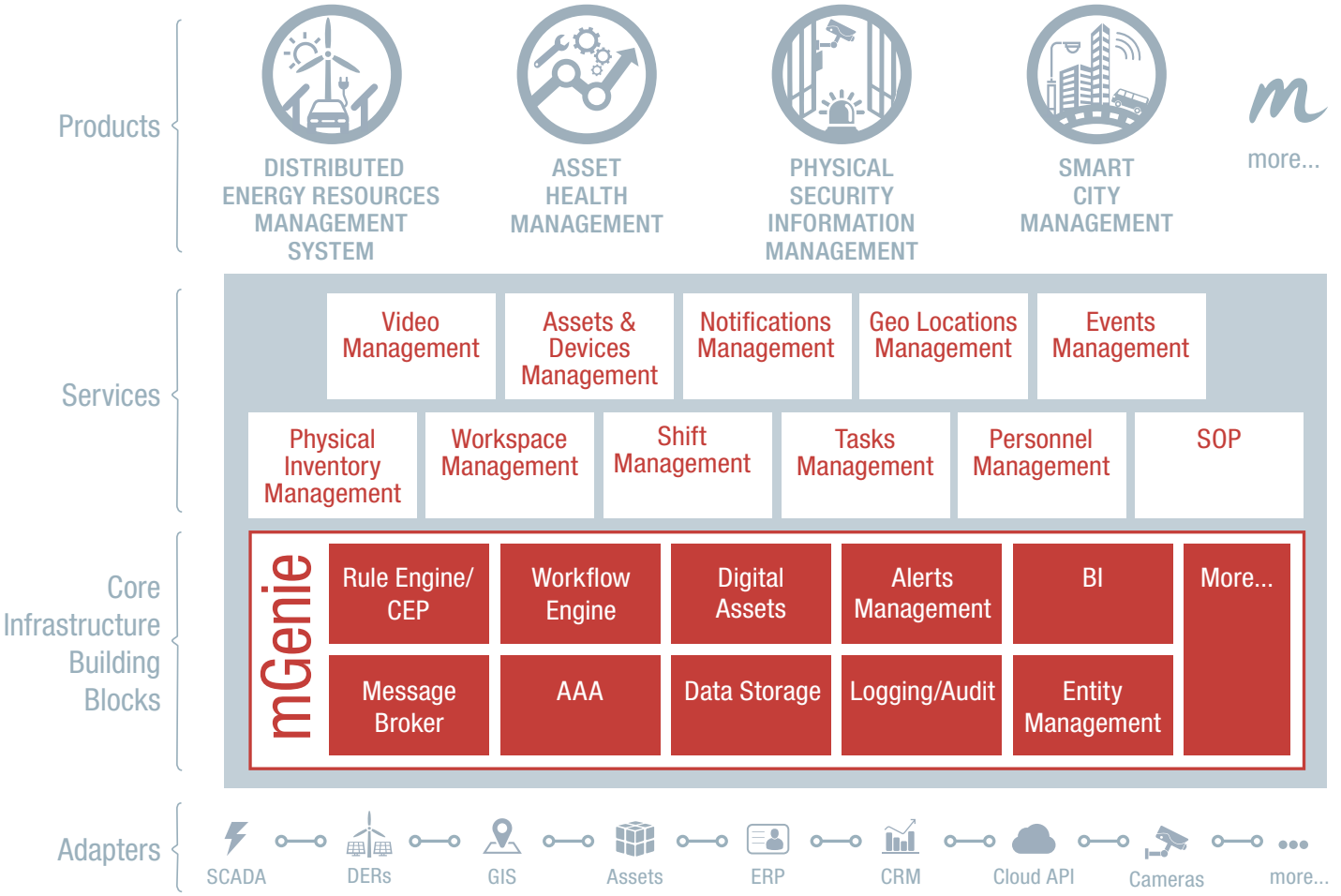


Technology Vision – Systems of Systems Approach

Based on a holistic “system of systems” approach, mPrest technology helps organizations integrate all existing and future platforms, assets and sensors across multiple disciplines into a single unified system view. By **connecting the dots across various domains**, mPrest’s technology enables improved situational awareness and generation of meaningful operational insights and control.

Comprised of modular building blocks, our unique technology gathers data from millions of sensors and subsystems, **applies big data analytics utilizing mPrest’s artificial intelligence algorithms**, and enables cross-discipline correlations in real time. mPrest’s “System of Systems” approach, integrates all relevant OT and IT platforms into a single end-to-end process and reduces costs with increased operational efficiency and better overall systems performance..

mPrest employs a **microservices architecture**, which allows us to “mix and match” generic, field-proven components developed for various customers and projects. Together with our **vendor-agnostic design**, this facilitates fast delivery and integration with existing third-party systems, while eliminating the need for “forklift” replacement.



mPrest's Remarkable Story: "From Iron Dome to IIoT"

mPrest specializes in **smart management, control and big data analytics software for the IIoT market**. We earned our stripes in the highly demanding defense market, having developed some of the industry's most advanced and sophisticated command and control applications, including the software behind the world-renowned **Iron Dome** missile defense system. We soon realized that this battle-proven technology is exactly what IIoT markets require for digital transformation.

Over the past decade, we've focused on transforming these intelligent, real-time defense IoT capabilities to commercial applications. mPrest's smart monitoring, control and big data analytics platform is now operational in mission and business-critical IIoT applications across various industries, including **power utilities, water utilities, smart and safe cities, critical infrastructure protection, connected cars, smart agriculture**, and beyond. Leveraging our game-changing technology, leading organizations worldwide have generated new revenue streams, dramatically improved operational efficiency and achieved quick ROI results.



Giving Our Customers a Competitive Edge



- **Field-proven**

mPrest technology is production-proven, managing tens of millions sensors 24/7/365 in the most complex and demanding IIoT environments, such as Internet of Energy, smart and safe cities, critical infrastructure protection, connected cars, defense and more.

- **System of systems**

Integrates and correlates data across multiple domains and platforms for unmatched monitoring, control and analytics. Our “System of Systems” approach enables utilities to execute end-to-end IT and OT processes on a multi-vendor legacy platform.

- **Vendor-agnostic**

Vendor-agnostic applications seamlessly integrate with legacy and new systems, assets and sensors, allowing customers to adopt a “best of breed” strategy, accelerate deployment times, and mitigate project risks and costs.

- **Adaptability**

Future-proof, flexible design enables organizations to maintain their IIoT applications in sync with a dynamic and unpredictable market, while avoiding time-consuming and expensive system replacements.

- **User empowerment**

User is empowered to define new business logic, add sensors and interfaces, scale the deployment and develop new applications, without needing to consult with us.

Multiple Software Applications, One Smart Management Platform



Utilities

mPrest's smart monitoring, analytics and control products revolutionize the way power utilities manage their operations:

- Intelligent grid modernization system of systems helps utilities maximize grid performance, lower operational costs, and avoid costly power outages.
- mDERMS allows utilities to connect, monitor and optimize energy flow across millions of DERs
- Asset Health Management enables real-time monitoring and diagnostics, allowing condition-based maintenance for power transformers, feeders and other critical assets.



Smart and Safe Cities

mCity is a one-stop smart city and smart city-as-a-service application that enables communications service providers (CSPs) and system integrators to maximize business value from smart/safe city and smart mobility offerings. mCity enables unified monitoring, analytics and optimization of multiple city domains, and includes pre-tested applications that accelerate time-to-market and lower costs.



Critical Infrastructure Protection

Our Critical Infrastructure Protection product delivers unmatched real-time situational awareness and automated incident response management, as well as physical security and cyber integrated management for critical facilities.



Connected Cars

Utilizing advanced optimization and analytics technology combined with robust and scalable applications, our Fleet Management product enables a wide variety of smart mobility and connected car services, such as predictive maintenance, security and theft prevention, live agent concierge services, driver behavior analysis and more.



Defense

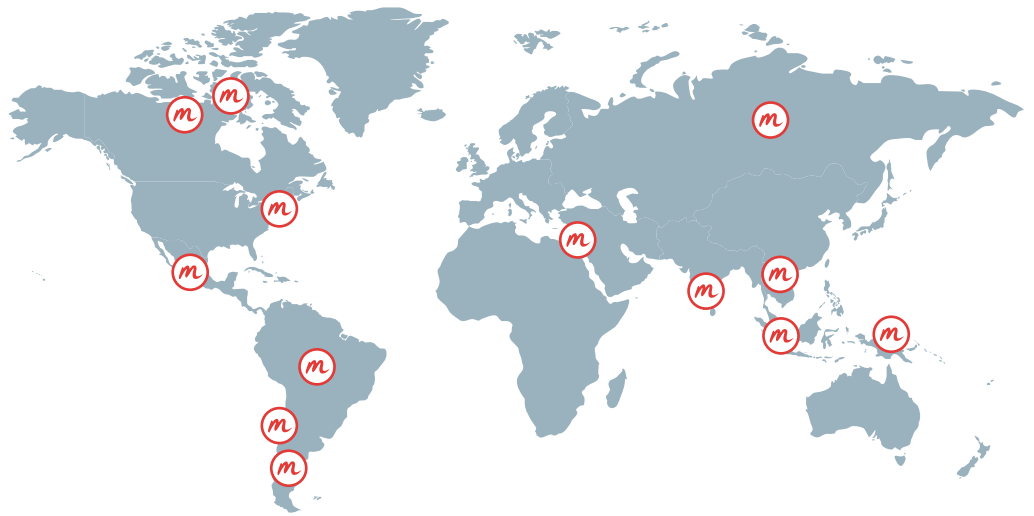
In addition to the command and control (C2) application for the Iron Dome missile defense system, mPrest also offers advanced C4I systems (Command, Control, Communications, Computing and Intelligence) for ground, air, maritime and simulator solutions.



Industry 4.0

mPrest's smart monitoring, analytics and control applications enable organizations to deliver on the industrial IoT promise. Using game-changing technology, mPrest offers smart Industry 4.0 applications for agriculture, mobility, manufacturing and other sectors.

Field-Proven Customer Success



New York Power Authority (NYPA), one of the leading generation power utilities in North America, is using mPrest's Asset Health Management system of systems application for real-time monitoring and condition based maintenance of its most critical assets, such as power transformers and more.



New Zealand's largest distributor of electricity and natural gas has deployed our mDERMS system of systems application to integrate, manage and synchronize distributed energy resources across its intelligent grid.



Israel Electric

Israel Electricity Company is using mPrest's integrative and holistic system of systems solution to monitor and control physical security assets, mobile generators, cyber infrastructure and operational processes at hundreds of sites.



Reliance Jio Infocomm Limited, a global telecom leader with over 100 million 4G subscribers, is using mPrest's Critical Infrastructure Protection application for physical security and operations of its 200,000 sites in India.



Bezeq's smart city software-as-a-service offering uses mCity to connect, integrate and leverage data from IoT sensors and subsystems, including video cameras, waste and water management, environmental monitoring and smart parking applications.



Ituran is using mPrest's robust and scalable Fleet Management application to manage its fleet of 1.5 million connected cars located across several countries, comprising a total of 15 million globally distributed sensors.



mPrest joined forces with Netafim, a global leader in agri-tech solutions, to create a first-of-its-kind smart irrigation application. Netafim is using this solution to boost efficiency and crop yields for its customers.



mPrest's game-changing C2 software developed for Rafael's Iron Dome missile defense system has changed the way countries defend their territories. This defense IoT technology is fully operational in the IDF.