



About ARNOWA

Arnova is an Australian-born Smart technology innovator. We excel in the design and implementation of IoT and Artificial Intelligence based solutions to simplify processes, spark business efficiency and promote sustainability. Our ecosystems acquire your undiscovered data in real-time and apply our diagnostic and predictive analytics. It's how we enable informed planning and management to produce true value, regardless of industry and size. Businesses who partner with Arnova proprietary ecosystems are Smarter, more efficient and more effective.

We are proud to have created Australia's first Multi-protocol Edge-computing Device (MED). The MED integrates with existing infrastructure to wirelessly connect the unconnected. It is a one-of-a-kind product with unparalleled flexibility and agility. The MED's applications are wide-ranging and encompass areas that traditional technologies simply cannot address.

We combine the power of IoT, Big-Data and Artificial Intelligence with Carbon - our highly customisable data visualisation, control, and analytics platform. Backed by Arnova's Real Intelligence, our clients implement efficiency opportunities with surgical precision and continually improve their operations. That's how we redefine the concept of successful and sustainable management.

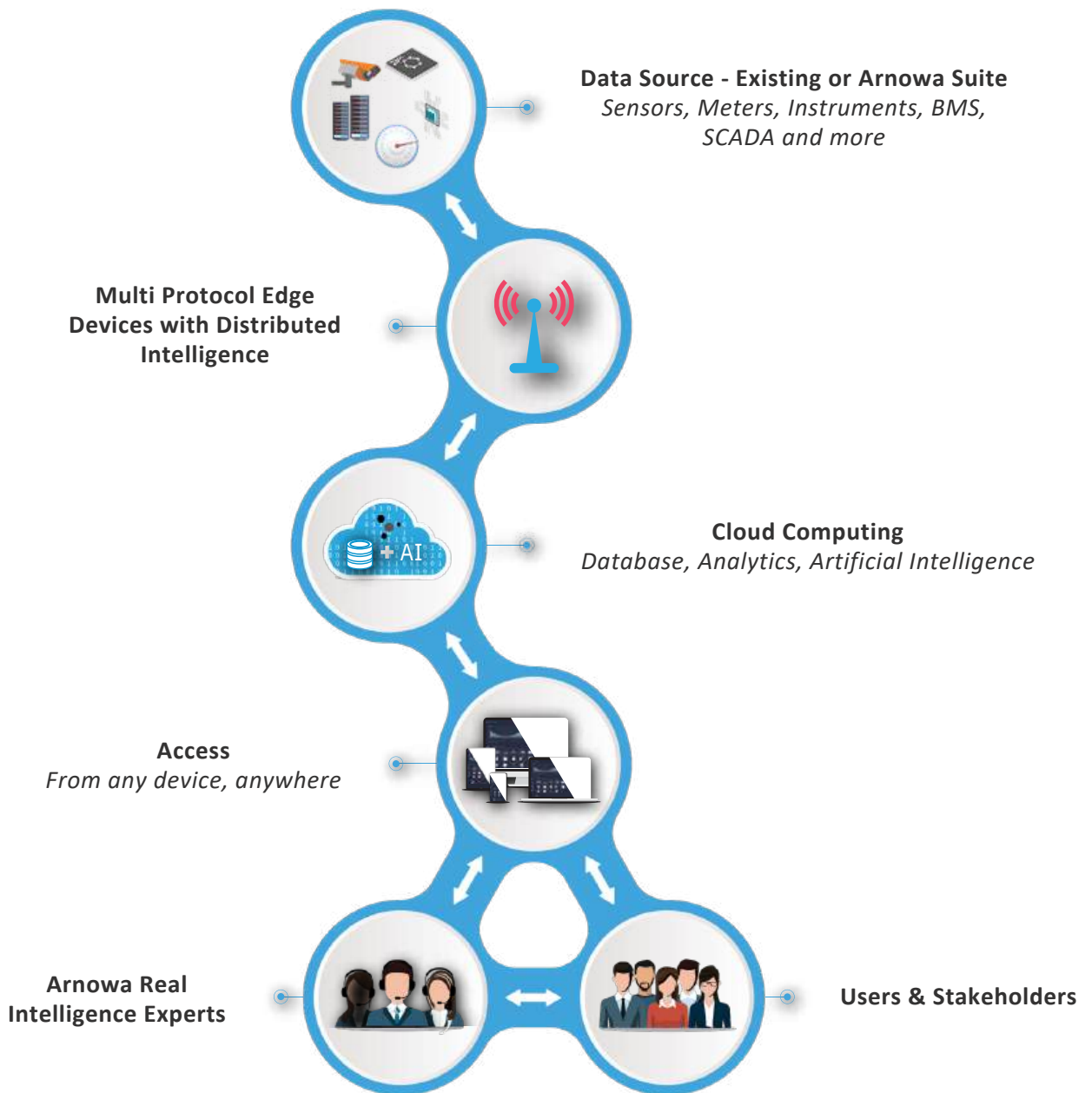
Are your processes lean and automated enough? Can you predict your facility's performance and address issues before they occur? Do you want insight for better management and decision-making? Arnova technologies uncover the true value of your data and provide these answers.

Operate like you never have before with Arnova's ecosystem. It is the end-to-end solution to navigate your business's Industry 4.0 revolution.

How We Deliver Value



The ARNOWA Ecosystem



ARNOWA Smart Technology Solutions



Carbon Application Platform



Carbon is a cloud-based analytics platform which provides the foundation of Arnowa's technologies. Carbon is the engine which powers the multiple IoT-enabled solutions in Arnowa's product suite Carbon identifies opportunities to improve efficiency and enhance management initiatives, enabling Arnowa to provide tangible value to existing, emerging, and future industries.

Carbon's intuitive and user-friendly platform gathers and stores data from sensors and various metering devices. It processes and interrogates this data using robust cognitive algorithms fuelled by Artificial Intelligence and Machine Learning, presenting complex and continually refined results in an easy to interpret and navigate dashboard. Carbon's data visualisations provide detailed insight, predict performance, and deliver timely alerts to necessary stakeholders. It is highly flexible and can be modified for consumption by users of any technical level and even general public.

Carbon's outcome is not exclusively hinged with Arnowa hardware. It can accept data through a multitude of communication protocols, allowing Carbon to seamlessly source data from pre-existing hardware installations. This significantly minimises installation costs and time, resulting in the rapid delivery of even a complex turnkey system.



FEATURES

- Real-time data insight
- Intuitive, interactive dashboards
- Multi-protocol communication
- Predictive alarms and alerts
- Automated billing processes
- Remote access and control: any device, anytime, anywhere.



BENEFITS

- Reduction in operational costs
- Enhanced operations visibility
- Data & event logging, storage, and export capability
- Real intelligence and support
- Facilitation of data-driven management initiatives
- Sharing and access control
- Customisable smart filters



APPLICATIONS

- Arnowa's product suite
- Cloud computing
- Data analytics
- Data visualisation dashboards

Carbon in Action



Sharing and Access Control

- Control data access for various users inside and outside of your organisation.
- Share workspaces with unlimited users and assign singular users or user groups roles for specific workspace(s).

Data Logging

- Compatible with multiple industry standard data structures.
- Acquire data on scheduled, on-demand, or event-based intervals.
- Advanced analytics and predictive models from multiple data sources on a single platform.

Data Storage

- Store reports, programs, spreadsheets, images, and more securely in the Arnowa Cloud.
- Access stored data rapidly via Carbon from any internet-enabled device.

Interactive Location Maps

- Monitor and manage your assets on interactive maps • Use GIS layering to produce GPS and location based interactive visualisations

Real Intelligence and Support

- Tap into the decades of expert knowledge of Arnowa's Real Intelligence.
- Experience rapid response times through Carbon's Support Center.



Event Logs

- Experience radical management transparency with Carbon. Audit historical updates, alarms, user interactions, or operation interventions that occurred in your ecosystem.
- Review event logs since inception to identify user-specific log-in, configuration changes, control interventions, alarm acknowledgment, and notification receipt.

Asset Management

- Arnowa Cloud is a powerful, secure, and flexible way to organise and manage your assets.
- Monitor and manage your assets in different physical locations via a singular, intuitive dashboard.
- Group assets by geography, business unit, or customised categories with unlimited levels of sub-grouping.

Data Export

- Export raw data in easy-to-use formats for further assessment or third-party application interfacing.
- Historically aggregate data based on user preference to generate advanced statistical reports.

Smart Filters

- Remove ambiguity from the availability of an overwhelming dataset.
- Filter data based on your requirements to swiftly identify specific information or parameters of interest.

Multi-Utility Spatial Intelligence and Control System



As the value of IoT technologies are recognised globally, green and brownfield Smart City development projects are growing in number. This expansive industry welcomed with it a variety of solutions for a variety of Big Data challenges. While perhaps succeeding in their immediate application, these solutions typically operate in isolation. They are often reliant on the expertise and familiarity of a human interface to identify and act on efficiency initiatives. MUSIC is Arnowa's Multi-Utility Spatial Intelligence and Control System - a state of the art technology designed to bridge this gap.

MUSIC facilitates the management and control of multi-utility networks such as Smart Cities and Smart Industries. These networks are typically spread over vast areas with varying degrees of isolation. As a result, they can be exceptionally challenging to monitor and control. By pairing Australia's first Multi-protocol Edge-computing Device (MED) with spatial intelligence features, MUSIC connects the unconnected. Some of the protocols the MED can operate on include:



Simply put, MUSIC enables precise and accurate supervision of an entire network of systems and data sources independent of topography.



FEATURES

- Holistic management system independent of spatial restrictions
- Real-time data monitoring & management
- Indoor & outdoor tracking
- Smart video analytics (machine vision)
- Smart alerts



BENEFITS

- Optimised resource and utility management
- Extensive data inventory management
- Data-driven decision enablement
- Emissions and carbon footprint reduction
- opportunity identification
- Enhanced facility security monitoring



APPLICATIONS

- Any multi-utility infrastructure system including but not limited to:
- Smart Cities
 - Smart Industries
 - Smart Campuses

Smart Buildings



As the world moves towards high-density living, building construction projects are increasing both in number and technological advancement. The result, while enjoyable for occupants, is often a operations nightmare for building managers. Utility management can be reliant on accessing a multitude of platforms for a multitude of utilities such as HVAC, power, lighting, and water systems.

Arnova's Smart Buildings system is an IoT-based platform designed for holistic and effortless building management. It aims to simplify and optimise operational costs of a building or series of buildings, while retaining maximum occupant comfort and satisfaction.

The Smart Buildings system pairs real-time monitoring and data collection with Artificial Intelligence and Machine Learning to analyse, identify, and predict efficiency opportunities. Meticulously configured as a preset hardware and software offering, th system is highly customisable to suit a building network's requirements. With the flexibility to source and analyse data from pre-existing hardware, the Smart Buildings system is a versatile and robust solution which opens the door to the optimisation of any building network.



FEATURES

- Single management platform
- Real-time monitoring & alerts
- Embedded network and tenant utility management
- Automated tenant billing
- Occupancy monitoring
- Access management
- Inventory management



BENEFITS

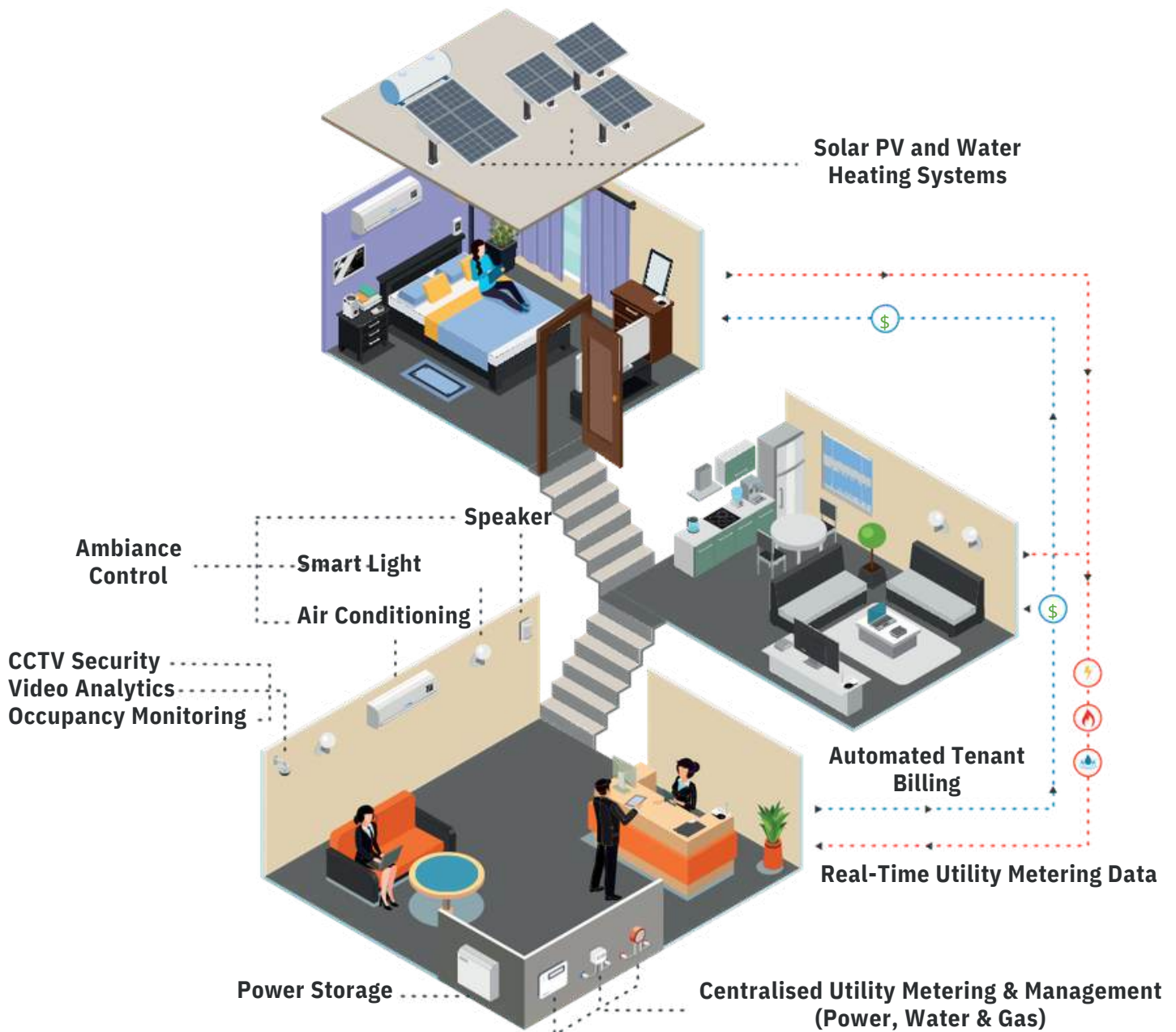
- Reduced operational costs
- Optimised resource utilisation
- Improved energy efficiency
- Smart ambiance control (HVAC, lighting & more)
- Enhanced space utilisation
- Improved safety & security



APPLICATIONS

- Office buildings
- Retail complexes
- Residential complexes
- Industrial buildings
- School and university campuses
- Warehouses and storage facilities

Smart Buildings in Action



Smart Parking Management



A large part of day-to-day life is dependent on transportation. It gets us to work in the morning, delivers fresh food to our grocery stores, and encourages us to explore the far corners of the world. Amongst the possibilities that transportation enables, it also becomes a source of unique frustration at times and fuel-consuming hunt for an elusive parking bay.

Arnova's Smart Parking Management system helps councils, municipalities and private parking management companies to smartly manage the parking system. Arnova allocates the resources and also looks after its optimisation. Ensuring a customer-centric approach, the solution enhances asset utilization and provides an adequate provision to customers and community satisfaction. The smart technology features to avoid parking breaches and strengthens the safety and supervision of parking lots. It provides an agile ranger and parking enforcement capabilities to cities and parking providers.

The system also assists drivers in navigating to the nearest available parking spot effortlessly, avoiding delays while searching for an empty bay. Its mapping feature can be realised into ways - by utilising video analytics to assign location identifiers to each parking spot, or via hardware sensors installed at each bay. Both techniques produce a real-time occupancy map. Implementing the video analytics solution can further simplify parking infrastructure management with the ability to track number plates, count vehicles, identify vacant/occupied spaces, and automate entry and exit points to optimise traffic flow. The inclusion of smart video analytics also enhances security systems, resulting in a safer environment for the users and their vehicles.



FEATURES

- Real-time monitoring and alerts
- Real-time parking availability map
- Real-time occupancy monitoring and management
- parking violation detection
- Advanced GPS based navigation and mapping
- Electric vehicle charging station integration



BENEFITS

- Reduced parking time
- Reduced traffic congestion
- Improved vehicle and personnel security and safety
- Automated entry and exit functionality
- Traffic monitoring and management
- Road condition monitoring and alerts

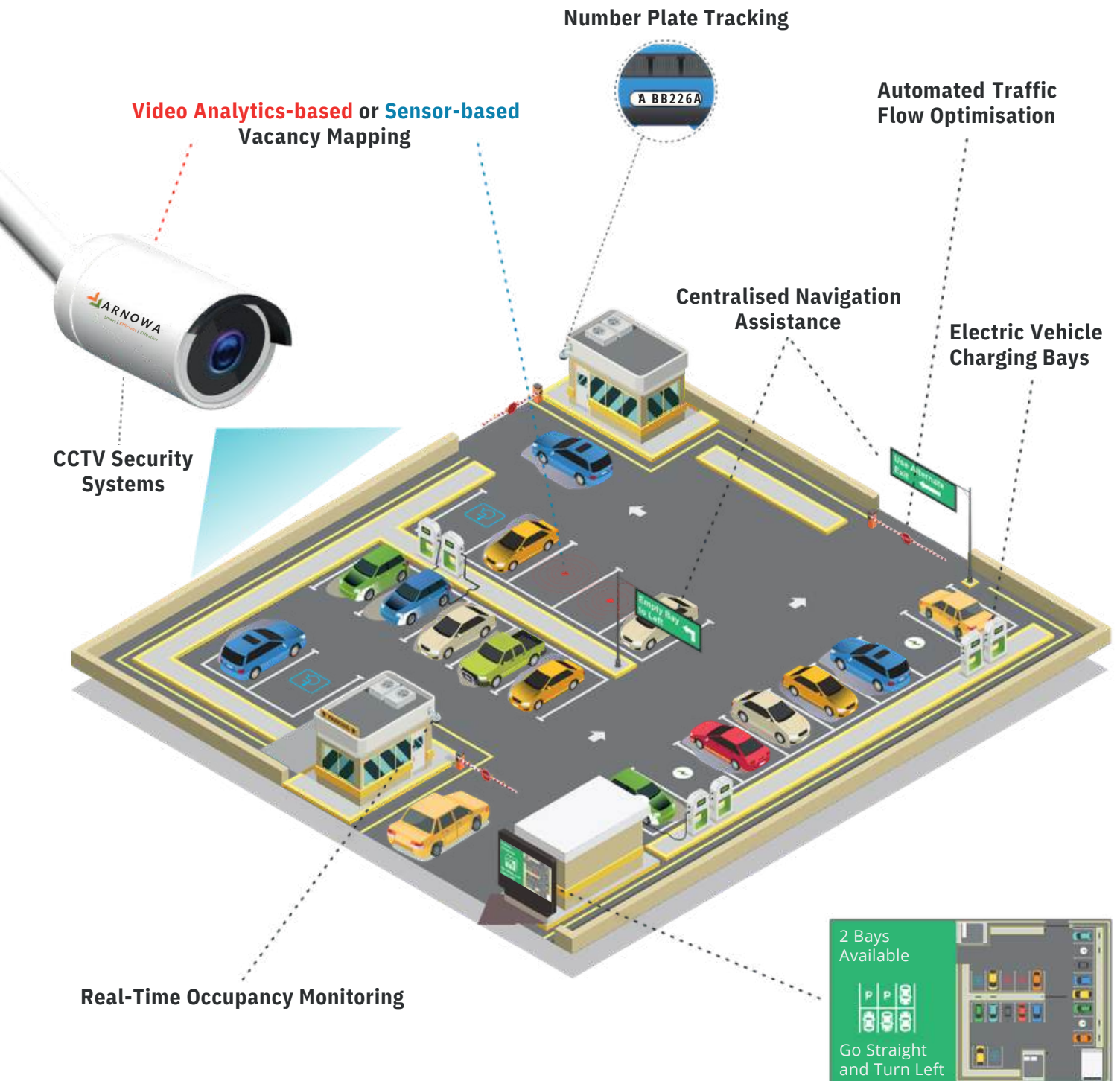


APPLICATIONS

Any multi-parking locality including but not limited to:

- Public parking
- Commercial parking
- Airports
- Public transport stations
- Schools and university campuses
- Shopping complexes

Smart Parking in Action



SmartPole & Smart Street Ecosystem



The urbanisation of global cities has produced an undeniable demand for data collection and visualisation. Concurrently, improper infrastructure planning can cause pitfalls in appearance, functionality and development of how Smart cities are illuminated. Different designs are often commissioned to deliver data for different users. Unifying these data standards allow for the integration of information, facilitating intelligent business functions and a seamless data sharing experience.

Arnova's SmartPole and Smart Street Ecosystem was created to address this need. Firstly, by bolstering the idea of a simple light pole with cutting edge technologies that can be customised to suit any Smart City's requirements. IoT enabled, the SmartPole consolidates multiple functions into an individual pole (such as lighting, video surveillance, and signage). Arnova's SmartPoles also interface seamlessly with Smart Benches, Smart Waste Management (bins) and Video Analytics to complete a Smart Street Ecosystem. The result is a de-cluttered urban landscape which is safer and more responsive for its residents.

The Smart Street Ecosystem is completely autonomous and energy efficient, saving up to 70% in conventional electricity consumption with integrated solar panels. Self-diagnostic capabilities equip the SmartPole with ability to pro-actively detect system faults and trigger alerts for maintenance activities, drastically minimising down-time and services outages. With data availability at your fingertips, the Smart Street ecosystem inherently reduces bottlenecks for the deployment of new developments, precinct planning, traffic management and economic development.



FEATURES

- LED luminaire(s)
- Integrated solar power battery
- LoRa/Wi-Fi communication and control
- Occupancy monitoring
- Public Address system
- Electric vehicle charging
- Digital signage
- Weather station
- CCTV



BENEFITS

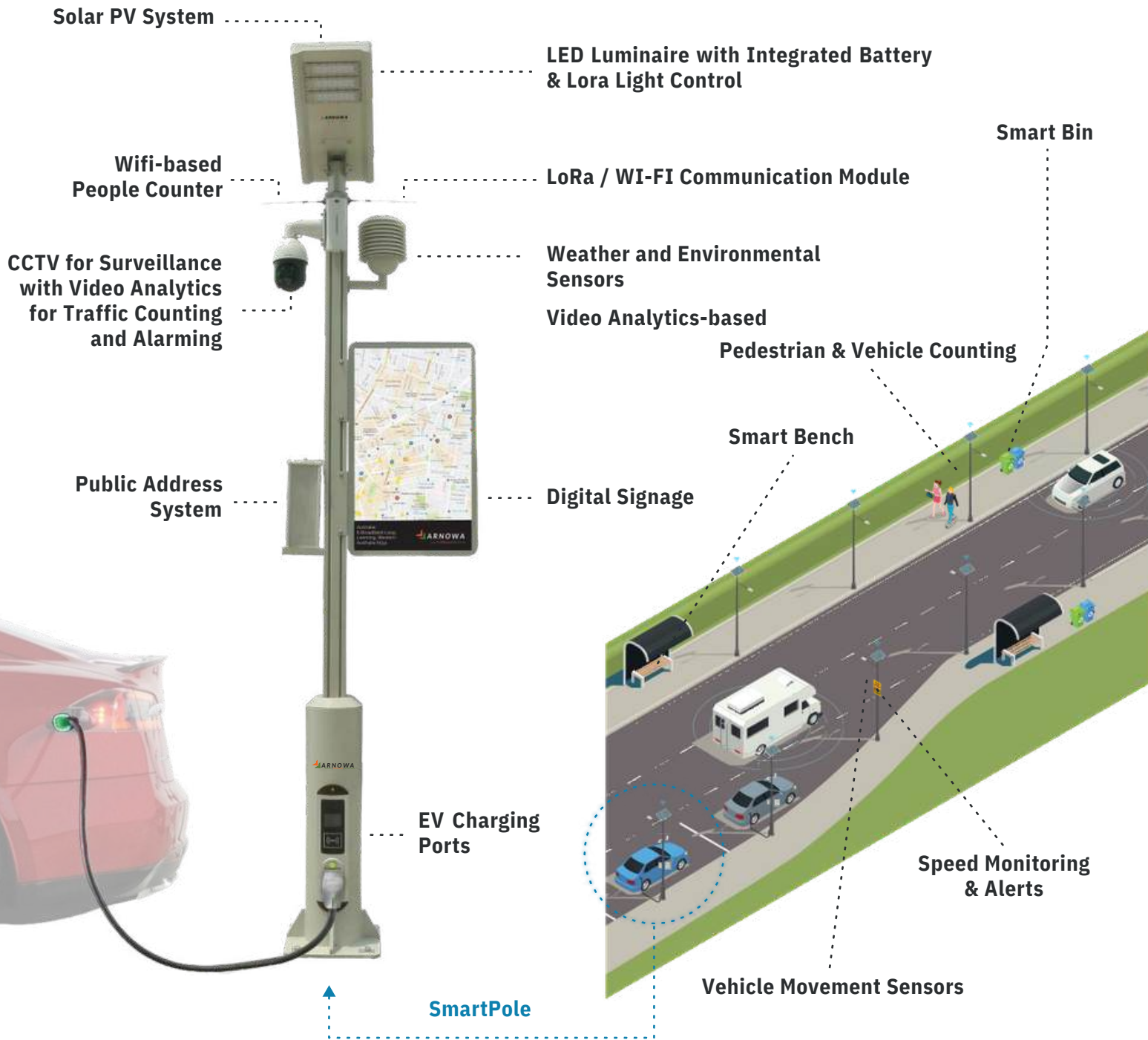
- Renewable-powered & energy efficient
- Reduced operational cost
- Reduced maintenance costs
- Emergency notification distribution for crowd control
- Smart video analytics
- Traffic monitoring
- Increase occupant dwell-time



APPLICATIONS

- Cities
- School and university campuses
- Residential complexes
- Airports and Railway Stations
- Public transport stations
- Public spaces
- Parks and walkways
- Main Roads and Streets

Smart Streets in Action



Smart Waste Management



Waste management is a global issue, particularly in developing nations. Improper waste collection and disposal practises often lead to environmental damage. Even in developed countries, waste collection systems are manually intensive and inefficient. Typically, garbage collection vehicles empty bins either when they are over flowing or not full enough. These inefficiencies can be a costly use of labour and fuel, cost of which is typically paid by local taxpayers. Aside from cost, these in-efficiencies can also result in unnecessary littering.

Arnova's Smart bins include inbuilt fill level sensors that transmit real-time data and alerts to waste collection centres. The fill-status of these bins can be monitored and accessed remotely, enabling the relevant authority to deploy collection vehicles only when bins are full. Equipped with predictive analytic capabilities, the Smart Waste Management platform can predict filling times and adjust collection vehicle schedules accordingly. The result is an optimised waste collection system which enables authorities to gain increased visibility and control over waste management processes.



FEATURES

- Real-time community bin monitoring and alerts
- Robust and long-battery life sensors
- Waste contamination indicator
- Cost effective
- Environmental monitoring sensors functionality
- Optional Integrated solutions for Compactor bins as well



BENEFITS

- Reduced collections, optimised schedules
- Reduced fuel consumption
- Reduced carbon footprint
- Reduced operational expenditure
- Reduced operational load at waste processing facilities



APPLICATIONS

- Cities
- Industrial complexes
- Parks
- Airports
- Public Transport Stations
- School and university campuses

Smart Waste Management in Action



Carbon Dashboard
Accessible by any device, anywhere

Alert-based Vehicle Scheduling



LoRa Enabled

**Smell Monitoring
LoRa Enabled
Fill Sensors**

Arnova All-in Smart Bin:

- Solar-Powered Waste Compacting
- Fill Monitoring
- Contamination Monitoring
- People Counting
- SOS-Capable Alarming

Retrofitted Smart Waste Sensors:

- Fill Monitoring
- Contamination Monitoring

Smart Stores & Franchises



The Smart Store System is Arnowa's state of the art solution which unlocks the efficiency and sales revenues potential of IoT-enabled technologies for store owners, franchisees, and franchises. The system collects and analyses various data sources, providing retailers with an easily interpretable dashboard for effortless management. The collected data provides knowledgeable insights into a store's operations, allowing identification of opportunities to make any store more efficient and profitable. While the immediate result is a streamlined customer experience with amplified revenue for retailers, an increase in customer's brand loyalty is an invaluable by-product.

Arnowa's Smart Store System applies IoT, Artificial Intelligence, and Machine Learning technologies to build a comprehensive analysis of the movement of goods from point of supply to point of sale. This visibility facilitates informed supply chain management, asset tracking, and monitoring of perishable food items to ensure in-store product quality.

Within the facility, the Smart Store System manages utilities to ensure minimised operational expenditure on power, water, and gas consumption. Predictive and real-time fault identification trigger maintenance activities to avoid equipment down-time, spoilage of perishable goods, and revenue loss. Image and video analytics tirelessly query occupants to maintain store security. Smart shelves and storage allow for seamless updating of cost tags and prompt refilling activities. The Arnowa Smart Store System is a flexible and multi-pronged solution for any retailer, large or small.



FEATURES

- Real-time monitoring and alerts
- Occupancy monitoring
- Smart HVAC control
- Smart shelves and storage
- Smart inventory management
- Anti-theft video analytics
- Temperature monitoring and control
- Predictive maintenance identification



BENEFITS

- Efficient resource and utility management
- Reduced utility costs
- Improved inventory and supply chain management
- Facilitates targeted sales campaigns
- Boosted customer experience
- Increased profitability
- Reduced carbon footprint



APPLICATIONS

- Any retailer of any size, including but not limited to:
- Grocery Stores
 - Department Stores
 - Convenience Stores
 - Supermarkets
 - Bakeries and Patisseries
 - Clothing Retailers

Smart Stores in Action



Video Analytics



Rapid population growth and globalisation inherently demand the upgrade of outdated security infrastructure to maintain occupant and asset safety. Leaps and bounds have been made in the advancement of Smart video analytics, facilitating a predictive and hence preventative approach to incidents. This is a stark comparison to the commonplace sole reliance on post-incident analysis.

Arnova's Video Analytics platform is an advanced surveillance platform that tirelessly interrogates incoming feed and can extract useful information from simple videos. Real-time data is delivered with speed and accuracy and can detect and distinguish a variety of parameters including objects, speed, colours, people, vehicles, numbers, faces, and behaviour. The platform systematically flags these parameters, enabling manual video interrogation to occur with speed and purpose. Subjects can be identified and earmarked at each appearance in a video, drastically reducing manual analysis time of long videos.

The fully integrated smart platform not only monitors and collects data but also provides users with knowledgeable and actionable insights to enhance security and simplify management activities.



FEATURES

- Real-time activity detection and alerts
- Smart video and image analysis
- Proactive monitoring
- Preventative alerts
- Smart operational intelligence
- Omission of Repeated or static object(s) for rapid analysis



BENEFITS

- Crime prevention and reduction
- Unusual activity detection
- Improved safety and security of occupants and assets
- Reduced inventory shrinkage
- Improved traffic and crowd management



APPLICATIONS

- Cities
- Public spaces and facilities
- Residential complexes
- Shopping complexes, stores, and markets
- Industrial and commercial spaces
- School and university campuses
- Police stations
- Banks

Smart People Counting



Arnowa's Smart People Counting is a secure and effective solution for any application where occupant numbers and movement data is valued. It captures and visualises movements within a predefined physical area and is not restricted to open or closed spaces. People counting is of significant benefit to shopping centers, city councils, libraries, banks, swimming pools, parks, recreation or sport complexes, and restaurants to name a few. The data aids businesses and managers in making well-informed decisions to optimise foot traffic and drive increases in efficiency and revenue initiatives. Arnowa's Smart People Counting is a flexible solution that can be adapted for WiFi-enabled devices or video analytics.

WiFi Based Counting Solution

Arnowa's WiFi-based People Counting Solution quantifies wifi-enabled devices, such as mobile phones or smart watches, within an area. The WiFi People Counter records real-time data by temporarily locating these devices and sending data to a secure local or cloud server. No user information is recorded or stored to ensure occupant privacy. Spatial data is used to estimate occupancies and movement within a variable distance radius of up to 150m. The occupancy data then pairs the spatial utilisation of an asset with real-time alerts. This feature allows users to understand when an area's limits are being exceeded.

Video Analytics Counting Solution

Arnowa's Video Analytics Counting is the second and more accurate people counting solution. Powered by on-board computer vision and Artificial Intelligence, Arnowa's Video Analytics computes occupancy data "on the edge". Feed storage, if required, is also only done at the Edge device. The result is a reduction in network bandwidth usage as the only data cast to the cloud is a number - be it people, vehicles or another occupant-type. Feed storage, if required, is only done at the Edge device. Arnowa's Video Analytics Counting also tracks movements to produce heat maps and further aid various applications with understanding patterns for space utilisation.



FEATURES

- Rapid installation
- High accuracy, long range
- Real-time occupancy data
- Data security and privacy protection
- Real-time occupancy limit alerts
- Day & night mode operations
- Indoor and outdoor application



BENEFITS

- Performance optimisation
- Resource allocation optimisation based on utilisation metrics
- Improved occupant experience
- Benchmark scoring of high-performing sectors of stores/places
- On- and off- peak staffed hours management



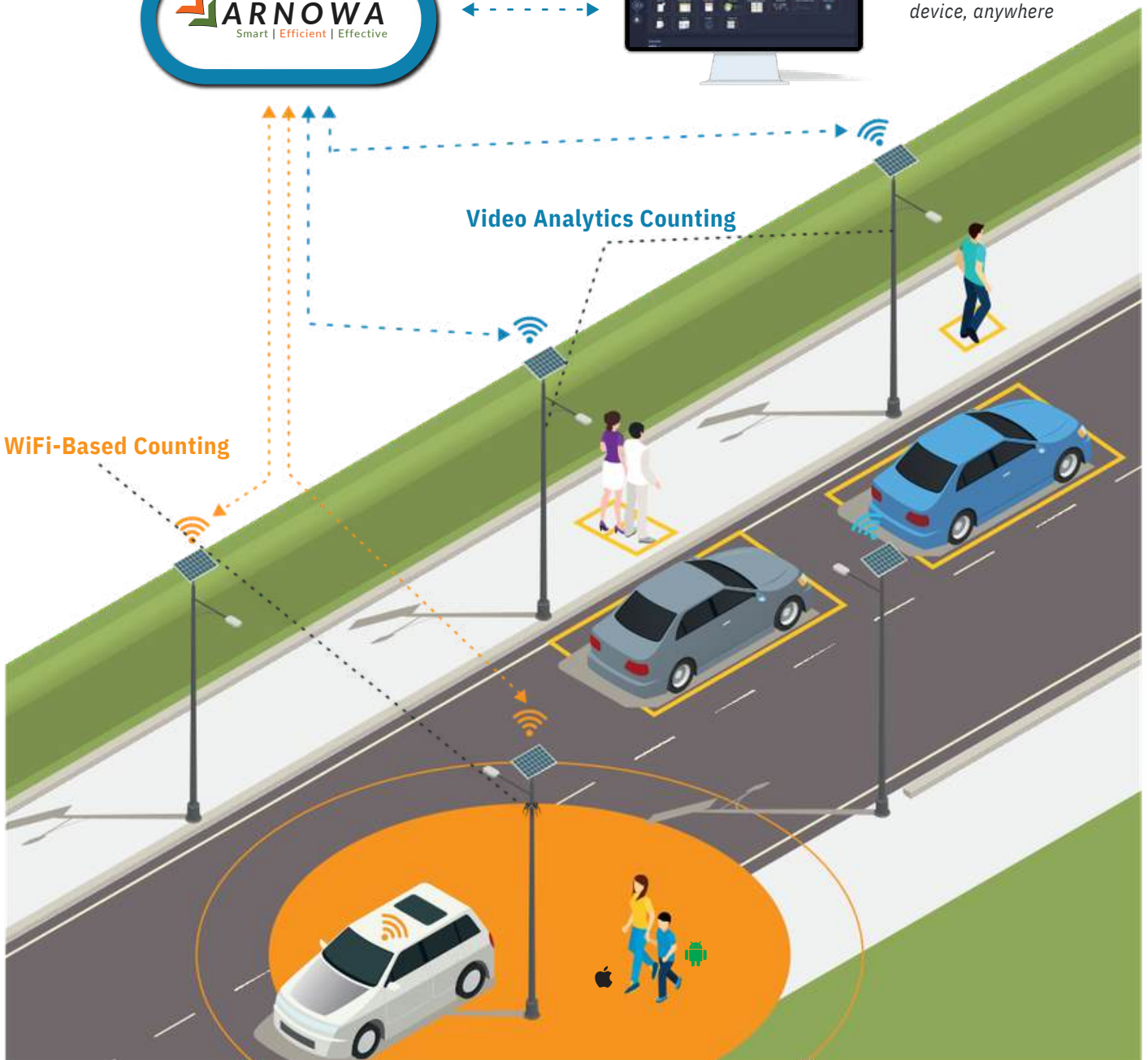
APPLICATIONS

- Office spaces
- Open area reserves (parks, recreation centers, sport facilities)
- Stores and shopping complexes
- Airports
- Streets systems
- Public Spaces

People Counting in Action



Carbon Dashboard
Accessible by any device, anywhere



Virtual Power Plant



Yesterday's renewable energy technologies have laid the foundation for tomorrow's flexible and efficient energy network. While renewables may be old news for households and businesses, the true potential of these Distributed Energy Resources (DERs) is often unrealised.

Arnova's Virtual Power Plant (VPP) decentralises DERs by aggregating and optimising their distribution network. It's how we reimagine the use of existing infrastructure to share power and create new revenue streams for collaborators. VPP connects the unconnected - from solar to batteries to diesel generators. It's flexible power acquisition boosts network effectiveness by delivering ancillary services to the grid.

The VPP solution couples Arnova's Energy Management System (EMS) software with Smart hardware to measure and monitor real-time power generation and consumption. By aggregating and controlling the DER network, the EMS optimises power management and redistributes power from prosumers to consumers. This Demand Response (DR) functionality flattens the "duck curve" by minimising traditional power plant power procurement. Arnova's DR programs also reduce or shift load during peak times by implementing initiatives such as dynamic pricing, direct load control, and behaviour-based analytics.

The EMS platform is designed to boost enrolment, participation, and engagement with commercial, industrial, and residential customers. The larger the enrolment network, the greater the energy access and therefore efficiency opportunities.



FEATURES

- Real-time power consumption and distribution monitoring
- Flexible distribution models
- Dynamic, behavioural pricing structures optimise revenue
- Centralised, simple billing
- Smart inverter management, active and reactive power quality control



BENEFITS

- Reduced non-renewable power dependence
- Reduced operational costs
- Additional revenue stream
- Rapid return on investment
- Reduced carbon footprint
- Increased customer engagement
- Storage optimisation



APPLICATIONS

- Cities
- Commercial and industrial complexes
- Residential neighbourhoods
- Housing complexes
- Multi-locality university campuses

Smart Grids



An estimated 70% of global energy demand is met by fossil fuels sources. Demand continues to rise with population growth, at the detriment of the environment. Conventional power grids are often ill-equipped to meet requirements and consumers suffer outages as a result. There exists an urgent need to transition to smarter, more eco-friendly technologies. Smart technology-enabled microgrids offer a solution which benefits producers, consumers, and the environment alike. Arnowa's Smart Grids allow unique cross-utility-grid operational capabilities to attain undiscovered efficiencies.

Arnowa's Smart Grid system enables prosumers to control series of microgrids while maintaining fault-free operation and voltage stability. The system acquires real-time data from Smart meters which operate on a variety of wireless communication protocols. Artificial Intelligence and Machine Learning balance and model numerous network parameters sourced from these meters. This means simple deployment and exceptional scalability. The system interrogates data to detect faults and identify efficiency opportunities - all without interruption to supply.

Smart Grid users possess the radical data transparency to effectively manage their multi-utility operated infrastructure. Loads and valves can even be controlled remotely, simplifying network and revenue management. Arnowa's intuitive Smart Grid system makes utility management effortless by pre-empting issues and prompting their rapid resolution. Resource wastage is effectively minimised and cost savings are maximised.



FEATURES

- Multi-site interoperability on single enterprise platform
- AI enabled load and generation prediction
- AI-enabled load assessment at household level
- Peer-to-Peer energy trading
- Predictive load analytics
- Reporting, alarming, and billing modules



BENEFITS

- Energy source diversification
- Power supply reliability
- Reduced consumption & costs
- Reduced carbon footprint
- Increased revenue generation from existing infrastructure
- Financial forecasting
- Stakeholder engagement
- Energy portfolio management



APPLICATIONS

- Cities and communities
- Housing village establishments
- Buildings
- Remote areas, such as national parks and military cantonments

Smart Forest Monitoring



Forests are an integral part of global ecosystems, significantly contributing to the world we live in. They capture carbon and purify air, provide timber, control floods, filter water, and maintain biodiversity. Their preservation and management are of inexplicable importance.

Arnova's Forest Monitoring System uses a variety of smart sensors and camera to monitor environmental parameter, fire presence, pest infestation, animal movement and soil health. The sensor output is tirelessly interrogated and modelled by cutting-edge data, image and video analytics. Artificial intelligence (AI) and Machine Learning (ML) continually optimise these models, facilitating the immediate detection of detrimental events such as forest fires and illegal logging. Real-time alerts are delivered to authorities, enabling rapid response and minimising the risk of forest destruction.



FEATURES

- Real-time monitoring
- Real-time event alerts to relevant authorities
- AI, ML, image processing and video analytics
- Powered by integrated solar and battery systems



BENEFITS

- Sustainable forest resource utilisation and preservation
- Rapid response enablement for forest fire response
- Reduced dependency on physical inspection



APPLICATIONS

- Known fire risk localities
- Areas suspected of illegal logging activity
- National parks and forests
- Animal Corridors
- General surveillance

Smart Irrigation Systems



Irrigation systems are infamous sources of water wastage. While water metering systems have been available in the market for decades, they are heavily reliant on manual checking processes. As a result, actions to mitigate water loss are often executed after a significant amount of wastage has already transpired.

Arnova's Smart Irrigation Solution is designed for water sustainability, significantly reducing consumption and losses in pre-existing or new irrigation systems. It is an IoT-based system which monitors local climate parameters such as temperature, rainfall, evapotranspiration, and soil moisture. The collected data is then analysed and automatically implements customised watering schedules and run times. Water loss events are also identified, triggering maintenance alerts for users. The result is a sustainable irrigation system which uses water reserves efficiently and responsibly, without compromising on irrigation effectiveness. Sustainable irrigation systems save precious resources and enhance community's water security. Wireless sensing and valve controlling provides an unmatched capability which can provide highly reliable data for prediction and efficient management.



FEATURES

- Effortless remote operation
- Multi-parameter monitoring for optimised watering schedules
- Real-time water loss event alarming
- Integrated energy and water monitoring for ground water abstraction



BENEFITS

- Water, energy and soil conservation
- Operational cost reduction
- Labour cost reduction
- Enhanced yield
- Reduction in fertilizer and water runoffs
- Water security



APPLICATIONS

- Agriculture farms, horticulture, and forestry establishments
- Community parks
- Community gardens
- Smart home irrigation solutions



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