

# 2022 WITSA Global Innovation and Tech Excellence Awards Nomination Form

The 2022 WITSA Global Innovation and Tech Excellence Awards (formerly known as *the Global ICT Excellence Awards*) will be presented to select individuals, academic institutions, corporations, NGOs or governments whose use and applications of digital technologies exhibit exceptional achievement within the following broad categories:

Private Sector/NGO	Public Sector
Digital Opportunity/Inclusion Award	Digital Opportunity/Inclusion Award
Smart Cities Award	Smart Cities Award
Sustainable Growth/Circular Economy Award	Sustainable Growth/Circular Economy Award
Innovative eHealth Solutions Award	Innovative eHealth Solutions Award
Public/Private Partnership Award	Public/Private Partnership Award
E-Education & Learning Award	E-Education & Learning Award
Emerging Digital Solutions Award	Startup Ecosystem Award

In addition, a *Chairman's Award* will be presented to a nominee selected from the entire pool of candidates from all award categories.

Candidates for these Awards are nominated by ICT experts from around the world who span over 80 countries/economies. The 2022 *WITSA Global ICT Excellence Awards* will take place in conjunction with the September 13-15, 2022 World Congress on IT in Penang, Malaysia (<https://wcit2022.com>/<https://wcit2021.org.bd/>).

## Smart City Award

**Award Criteria:** A smart city is an urban area that uses different types of electronic methods and sensors to collect data. Insights gained from that data are used to manage assets, resources and services efficiently; in return, that data is used to improve the operations across the city (ref. Wikipedia). This includes data collected from citizens, devices, buildings and assets that is then processed and analyzed to monitor and manage traffic and transportation systems, power plants, utilities, water supply networks, waste, crime detection, information systems, schools, libraries, hospitals, and other community services. The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the IoT (Internet of things) network to optimize the efficiency of city operations and services and connect to citizens.

Smart city technology allows city officials to interact directly with both community and city infrastructure and to monitor what is happening in the city and how the city is evolving. ICT is used to enhance quality, performance and interactivity of urban services, to reduce costs and resource consumption and to increase contact between citizens and government. Smart city applications are developed to manage urban flows and allow for real-time responses. A smart city may therefore be more prepared to

respond to challenges than one with a simple "transactional" relationship with its citizens.

**Award #1: Corporations:** This award will recognize outstanding Smart City industry solutions, including in digital administration, best industry solutions in civic and community engagement and transparency, including Open Data, city portals, and emergency services, best industry initiatives in the area of digital equity and accessibility including technologies for disability compliance, innovations in accessibility services, public Wi-Fi, and other projects focused on underserved communities, automation and systems integration to measure, monitor, control, and optimize building operations and to use energy in the most efficient and cost-effective way, reducing challenges and costs related to water stress, systemic inefficiency, and water loss while improving asset management and customer services, industry initiatives in the field of transportation, including autonomous cars, connected vehicles, and smart public transit, smart parking, smart infrastructure, intelligent traffic management, multi-modal transport hubs, journey planning and ride-hailing/ride-sharing services.

**Award #2: Government authorities** This award will recognize outstanding Smart City government projects, including the best projects in digital administration, best projects in civic and community engagement and transparency, including Open Data, city portals, and emergency services, best initiatives in the area of digital equity and accessibility including technologies for disability compliance, innovations in accessibility services, public Wi-Fi, and other projects focused on underserved communities, automation and systems integration to measure, monitor, control, and optimize building operations and to use energy in the most efficient and cost-effective way, reducing challenges and costs related to water stress, systemic inefficiency, and water loss while improving asset management and customer services, initiatives in the field of transportation, including autonomous cars, connected vehicles, and smart public transit, smart parking, smart infrastructure, intelligent traffic management, multi-modal transport hubs, journey planning and ride-hailing/ride-sharing services.

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**YOUR NOMINEES (limit three nominations per award category).** *Please specify whether the nominee(s) are for the private or public sector category.*

**Private/Public Sector:** Private

**Project Name:** Novade Solutions

**REASONS FOR NOMINATION** (NOTE: It is important that you make a detailed description of the nominee and why you think the nomination is justified. The absence of a detailed summary of qualifications as they *relate* to the above-mentioned award description will make it difficult for the awards committee to make an appropriate assessment of the candidate):

**SUPPORTING INFORMATION:** Please send any supporting information to the address above, including information from candidate (i.e. excerpt from program description, web site print-out, press release, etc.)

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[Please insert below the Product or Solution Synopsis, Impact, Case Studies etc.]

### About Novade:

Novade is a leading field management software developer for the building and infrastructure industry. Novade digitises and automates site processes including quality, safety, progress monitoring, workforce management, and maintenance. Powerful analytics provides insights for customers to streamline operations and drive results. Leading contractors, real estate developers, owners, and operators around the world trust Novade to drive their digital transformation. Founded in 2014, Novade is headquartered in Singapore and operates globally with offices in Paris, London, Hong Kong, Jakarta, Tokyo, Sydney, New Delhi, Bangkok, Beijing, and Beirut.

We are working with clients on projects in over 20 countries across Asia and Europe. Novade has been implemented by over 100,000 users across the world. Our platform is well suited for main contractors, sub-contractors, specialty contractors, property developers, homebuilders, interior designers, and civil engineers.

### Vision and mission:

Novade's vision is to revolutionise field management with digitisation and construction Artificial Intelligence (AI). We aim to bring together the power of man and machine so that construction site data can be captured and translated using analytics and AI, and decisions can be made in real time, on or off the field. We want to create an industry where everyone goes home safely when AI predicts incidents before they happen.

With over 200 million people working on construction sites every day across the world and over 60,000 fatal casualties every year, we understand that construction is a dangerous activity. Novade leverages digitalisation to make their jobs easier and get them focused on what matters: building good quality homes and infrastructure safely.

Construction and buildings represent 40% of CO2 emissions, Novade's platform helps construction be more efficient and use less resources to reduce its carbon footprint.

Novade offers tools for the field and data to drive decisions. We believe technology can make a difference and in the long-term, our goal is to impact the industry substantially through digitalisation from the ground up. As digital records grow, so will our analytical capabilities. The impact will be felt by individual companies harnessing data across all their projects, offering the ability to make sound business decisions based on big data.

As we continue to engage with the brightest minds, the impact will also be felt by the industry as a whole as we will be able to offer even more effective digital solutions that improve quality, safety, and productivity.

## **Product synopsis:**

Novade's integrated platform connects all modules, projects and users.

### **Novade Quality**

Easily deliver quality every time

- Inspections
- Quality controls
- Checklists
- Punchlists
- Defects rectification
- Handover
- Commissioning

### **Novade Safety-HSE**

Drive HSE Performance with Digitised Processes

- Toolbox meetings
- Permits to work
- Observations
- Inspections
- Safety forms
- Actions
- Incidents

### **Novade Reports**

Monitor Field Productivity

- Site diaries
- Daily & progress reports
- Supplies
- Workforce
- Equipment
- Production ratio

### **Novade Maintenance**

Reduce Operational Costs

- Asset register
- Certifications
- Contracts
- Meter reading
- Spare parts
- Inspections

- Requests, jobs

### Novade Workforce

Manage and Monitor Workers in the Field

- Qualifications
- Location
- Timecards
- Kiosk check-in
- Activity tracking
- Overtime
- Payroll export

### Novade Activity

Keep Track of Project Status

- Tasks
- Activity
- Milestones
- Calendar
- Gantt charts
- Checklists

### Novade Insights

- Real-time powerful analytics

### **Novade adoption:**

Novade first launched in the market in 2014. Singapore-based [CEL Development](#), a wholly owned subsidiary of Chip Eng Seng Corporation and Novade's first client, implemented the flagship Quality module in three stages. At the construction stage, the developer seamlessly coordinated site work between the main contractor and subcontractors in real time. The second stage – handover to customer service officers – main contractors reduced time and cost of rework by easily and systematically rectifying defects. CEL Development also extended the usage of the app to homeowners, who were able to lodge defects of their apartments at their own convenience. As Novade is a single site management platform, customer service officers were immediately notified and could assign the work to the relevant contractors. Since then, CEL Development has further adopted Novade on four projects, including Grandeur Park Residences.

Novade has close to 300 clients across the world, with a strong presence in Asia. In Singapore, we work with leading developers like Frasers Property, Far East Organisation, [Boustead Projects](#), and the Housing Development Board (HDB). Novade also supports the digital journey of various iconic projects including over 40 Land Transport Authority (LTA) projects and works closely with [Tiong Seng Contractors](#), [Hwa Seng Builder](#), and [Penta-Ocean Construction](#). Adding on, Novade works with global leading contractors

such as [Eiffage](#), Bouygues, Colas Rail, and Alstom. Some of the renowned projects include HS2 railway in UK, Grand Paris Express in France, the Spitalamm Dam reconstruction in Switzerland, and the [Great Jakarta LRT, or known as Jabodebek LRT](#), in Indonesia.

Novade constantly enhances its product. Our team works very closely with clients to understand their needs and project requirements. Upon observing pain points and receiving buy-ins from the field, we continue to develop new functionalities and upgrade the platform to offer an even more effective digital solution that improves quality, safety, and productivity. For instance, when COVID-19 began, we adapted and introduced COVID-19 Safe Site which helped companies manage site operations, conduct health checks, and enforce social distancing rapidly and safely.

Novade continues to evolve and accelerate digital transformation with Novade Connect, the set of software integrations offering plug and play connectors with some of the world's most trusted names in the construction industry including Autodesk Construction Cloud and Procore as well as state-of-the-art IoT devices.

In the long-term, our goal is to impact the industry substantially through digitalisation from the ground up. As digital records grow, so will our analytical capabilities. Novade's latest offering, Novade Insights, is a predictive analytics platform turning construction business intelligence into actions. The impact will be felt by companies harnessing data across all their projects, offering the ability to make sound business decisions based on big data. As the collection of data grows, so will its AI capabilities.

### **What makes Novade stand out?**

There are many companies in the sector offering specialised applications for safety, or quality of time sheets. Operators tend to use multiple applications and end up entering the same data across all applications. Novade provides one single platform covering and digitising the full spectrum of activities on the construction site.

In addition, each type of construction project in each country uses different standards. Novade's platform can easily be configured to match any field processes. For most applications, users follow a pre-defined approach. However, Novade matches any process in the field.

Our software is also quite different from other systems. While many software systems tend to push information from the office to the field, for us, everything begins in the field. Novade is process and data driven. Upon adopting the Novade platform, clients can collect millions of records and conduct powerful analytics to improve operations and performance.

Innovation is driven from the ground up. Novade recognises that digitalisation cannot be successful without the buy-in from teams in the field. We collaborate with our clients, collect their feedback, observe issues in the field and develop new technologies or functionalities that can solve these issues. In addition, we have a dedicated team working on Artificial Intelligence (AI) capabilities and integrating Novade's software with other technologies such as Internet of Things (IoT) devices and Bluetooth wearables.

### **Novade during COVID-19:**

The pandemic has profoundly impacted customer engagement and relationship. Pre-COVID-19, Novade's sales and consulting teams were spending a lot of time on construction sites.

In the second quarter of 2020, we experienced a significant shift: on one hand, projects were delayed because of lockdowns or supply chain disruptions; on the other hand, demand for remote digital solutions exploded. We noticed that clients who had started to adopt digital solutions to manage their operations prior to COVID-19 were handling the situation better than the others.

With so many restrictions in place across the world, we have learned to rely on video calls to engage and interact. While spending time in the field with our clients remains critical for our business, we knew remote engagement will continue after the pandemic is over.

Novade constantly enhances its product. Our team works very closely with clients to understand their needs and project requirements. Upon observing pain points and receiving buy-ins from the field, we continue to develop new functionalities and upgrade the platform to offer an even more effective digital solution that improves quality, safety, and productivity. For instance, when COVID-19 began, we adapted and introduced COVID-19 Safe Site which helped companies manage site operations, conduct health checks, and enforce social distancing rapidly and safely.

### Novade's growth plan:

Today, Novade is implemented by over 100,000 users across the world. Our platform is well suited for main contractors, sub-contractors, property developers, and civil engineers. We aim to accelerate our global expansion and market penetration in Europe, China, and Japan, as well as step up engagement with the leading global firms in the industry.

Workers use their mobile devices to capture data as work progresses. Our platform offers access to real-time data for progress monitoring, and provides on-the-go reporting anywhere, anytime. Safety is enhanced as work can continue in a contact-free situation. The mobile app even works without an internet connection because all data is synced and stored on the cloud whenever a connection is established. Novade is comprehensive yet an easy-to-use, cost-effective, and accessible tool which places real-time information in the hands of workers and management teams globally.

Our functionality, Novade Insights, also offers business intelligence and predictive analysis to increase safety, improve quality, and drive performance – all by using the data collected from the field.

Though Novade does not offer end-to-end construction management, it's strength lies in its specialisation in the digitalisation and automation of site processes – Novade supports teams with field management during the construction, handover, and maintenance phases. However, the platform does not support the initial stages of planning, design and engineering. In order to provide end-to-end construction management, Novade launched [Novade Connect](#). Construction companies can easily integrate Novade with some of the world's most trusted names in the industry such as [Autodesk](#), [Procore](#) and [Oracle Primavera P6](#). No more data silos – clients can unlock their data by easily connecting software across the value chain – documents, drawings, field observations and issues, and even

automating site entry with thermal imaging. All this in an easy plug and play integration, doing without teams of developers.

Novade currently has projects in the heavy civil infrastructure, residential and commercial buildings, and utilities sectors. Other sectors we can potentially venture to in the next few years include shipping and mining, oil and gas, as well as diving deeper into environmental construction such as waste management.

### **Novade's team and recognition:**

At Novade, we embrace the diversity of our clients and employees. Novade's team is made up of over 20 nationalities. Diversity is a key attribute of our culture. Each employee's opinions and contributions are truly valued. For us, "connecting the dots", and integrating diverse ideas from employees is a major source of innovation.

Novade's team also has a strong passion and expertise for new technology. Working with clients and solving their problems is a priority and we ensure that we deliver results which positively impacts us, our clients, the industry, and society. This is only possible by the collective contributions of all team members as well as transparency within teams and across departments.

Believing that its people are crucial, Novade ensures that all team members feel valued, supported, and empowered to give their best every day. Our team continues to operate and improve systems to produce and deliver exceptional services and product to clients. The teams align using the outside-in and inside-out approach. For instance, teams observe engagements with the product from the client's perspective. Then, the team maps the customer's digital and physical experience while using the app so as to deliver a good experience at all times. Additionally, the team also looks at internal business processes such as efficiency and ways to improve quality of the product.

At the same time, each employee is provided with opportunities to learn, hone, and develop different skills. Novade's management constantly draws upon the core skills of each member and deploys people-centric processes to transform each team member's experience. The team is provided with the necessary tools to fuel ongoing technical, business, and operational excellence.

Recognised as one of Singapore's most innovative companies, Singapore Business Review (SBR) awarded Novade the SBR Excellence Award for Digital – Real Estate in 2019. Novade was honoured for its innovativeness, effectiveness, and dynamism in driving digital transformation for the building and construction industry – not only in Singapore, but also Asia and the rest of the world.

CEMEX Ventures recognised Novade as one of the Top 50 Contech Startups of 2020. Novade also [won the Impact Award at the Built Environment Demo Day 2021](#), part of the Built Environment Accelerate to Market Programme (BEAMP) as well as one of the top finalists at SGTECH's Techblazer Awards 2021.



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**NOMINEE CONTACT INFORMATION** (for award follow up and coordination)

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