

ENT



The Importance of Digitalizing Environmental Data

Introduction

Ericsson Nikola Tesla is the leading provider of communication products and services in the operator segment, as well as a provider of innovative ICT solutions related to various industry sectors, health care, national and public safety, state administration, transport, utilities, and multi-media communication.

By combining technological leadership, innovative and cost-effective solutions, excellence in services and regional presence, our employees, in collaboration with customers and partners are the ones that really create added value. Thinking globally, we can easily observe that modern living and current industrial achievements have a significant impact on the environment which is the key to sustainable human evolution. Establishment of a national coordinated system of environmental information management and monitoring to effectively address environmental issues is being emphasized more increasingly in the current era and the responsibility relies not only on governmental agencies to regulate and dictate the process, however, also becomes a personal liability for each individual stakeholder in terms of industry players driven by global programs and contributing to Sustainable Development Goals (SDG's) To make it happen, we are looking for an integrative approach, combining natural, social and health sciences to enable decision making and actionable insights on national, regional, local or industry niche level.

ENT eEnvironment platform

Ericsson Nikola Tesla eEnvironment platform enables projects related to various environmental issues and goals that need to be achieved.

Therefore, our platform is designed in modular and scalable way to address all customer needs, whether you wish to manage environment data from the standpoint of Ministry of environment protection or related to challenges tackled on business/industry level. We help you collect data centrally in a uniformed way, we provide analytics and reporting module as well as connection to IoT sensors, open environment data access, satellite data access and we can even help you to engage local community and scientific community in data collection activities. With our platform, you will futureproof your business processes and increase data transparency and accessibility for all relevant stakehold-

ers. Depending on project type and goals the platform can be scaled by using all or just a selected batch of provided modules:

- 1 Central portal with GIS/map for easy data access
- 2 Citizen engagement and education module (behavior change capabilities)
- 3 Service bus for data collection (sensors, open data, integrations)
- 4 Data adapters for multiple data model support
- 5 Central DWH
- 6 Business logics and analytics modules
- 7 Reporting module and alarms
- 8 Authentications and authorization module.

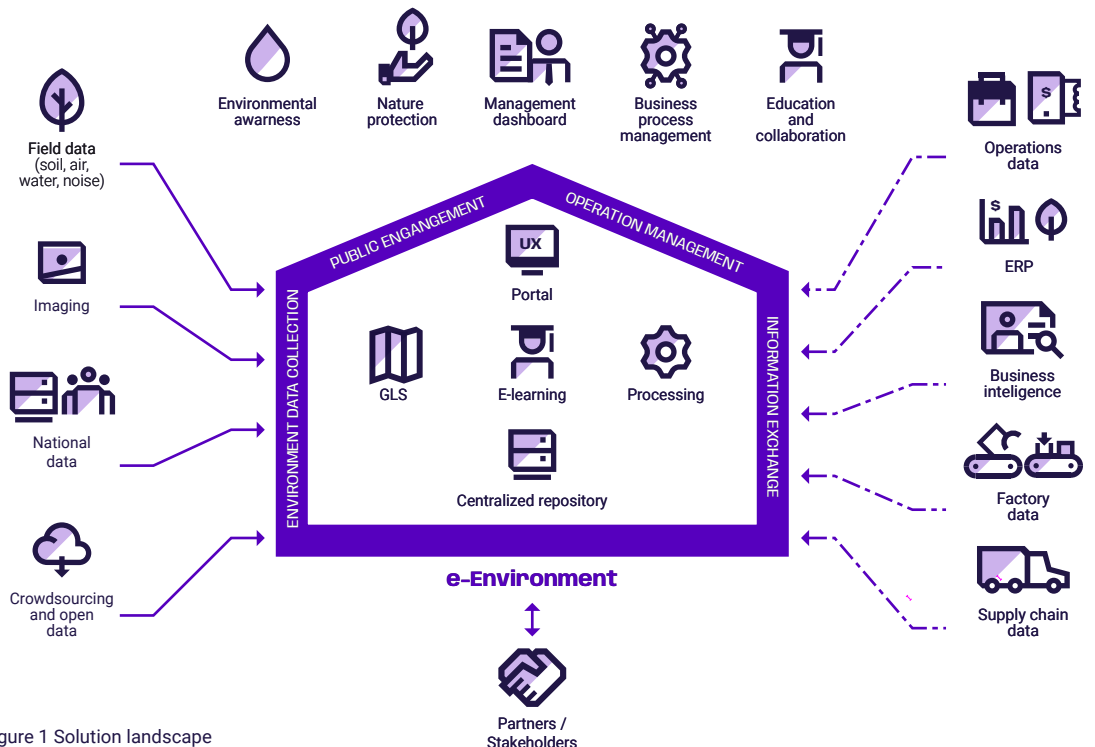


Figure 1 Solution landscape

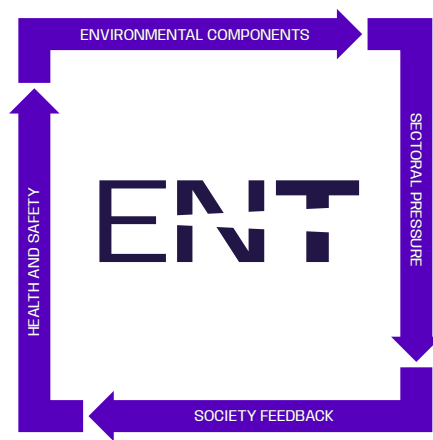
Key success factors for a Smart city platform

Whatever we do today involves some sort of technological device. Think about it; when was the last time you didn't look at a screen or had to do something digitally?

Both at work and at home the digital presence is felt without a second thought; we just expect our touchscreen phones and other gadgets to be disposable at our fingertips. Especially in the workforce where many manual operations have taken on a digital interface, the comfort and expectancy for these tools that allow us to complete our tasks more efficiently to be readily available have become second nature. Incorporating efficient environmental data management systems is one of the key factors which contributes to a business' success. Following the appropriate trends in the current market also involves complying and staying up to date with the latest acts, legislation, compliances, and regulations. This is an especially important part of corporate compliance mechanisms for organizations operating in the industrial and resource sectors, where the environmental impacts and their management is vital to everyday operations. This raises the expectancy and necessity of digital involvement, and the reliance of software solutions to manage extensive data information and analysis.

Environmental data storage location: one for all, and all for one

This may add to the complexity of maintaining large amounts of environmental data and having multiple storage locations, which has previously been the typical scenario. However, the problem of having scattered multi-layered systems relates to their associated slow productivity and being outdated, as data management systems have evolved to handle large amounts of data in one location. Adopting specialized environmental data management software systems enables institutions to streamline their environmental data management and encourage efficiency throughout the entire process.



INFORMATION



E-Health



E-Agriculture



E-Tourism



E-Mobility



Academia



Interested public



Government authorities

Figure 2 Environment data monetization

Driving the change with ICT

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The solutions to data driven government environmental policy and decision making

So, what steps can be taken to improve your one's data strategies?

- **Create Connected Systems:** To combat issues with compatibility, install data architecture that allows you to standardize how your data is collected, stored, and processed.
- **Education and Institutional Knowledge:** Use current reporting structures such as CDP as an opportunity to train facility managers throughout your organization to understand the importance of their data, solve inaccuracies, and develop operational action plans.
- **Technological Solutions:** Business-as-usual data collection can have multiple points of failure due to transferring data through multiple sources. Look for ways to use technology to automate, streamline, and increase confidence in data sets.

The ultimate goal for any organization or local government looking to improve how it manages sustainability data should be using that data to reduce environmental impacts, derive policies and directives, create more effective and efficient processes, and improve overall sector performance

Conclusion

It's all about turning robust data into actionable information by leveraging on IT tools that enable predictive insights.

In that sense, eEnvironment is an advanced IT solution that helps you consolidate all your data regarding water quality and turn it into a powerful decision-making tool for managing non-compliances and corrective measures in the environmental footprint. Also manage all the external stakeholders by providing them access to information and empower their engagement to achieve environmentally sustainable business growth. For more information, check our resources available on the web or contact our sales department

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