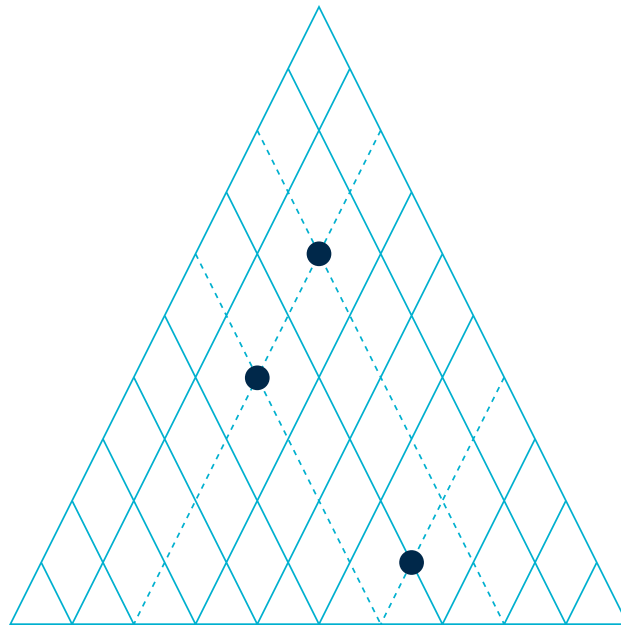
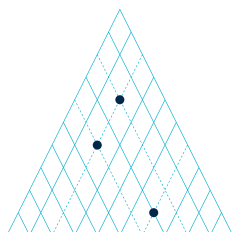


EURY
NOVA

EXPERT CONSULTANCY
SOLUTION DELIVERY
INNOVATION ADVISORY





When companies need IT experts to deliver value within their organisation, they can count on EURA NOVA's « Expert Consultancy » services.

Find out more in this booklet.

In 2008, we created EURA NOVA with a vision: to bring life to your great ideas, by offering best-in-class IT services.

To make this happen, we invest significantly in in-house knowledge and expertise. Indeed, acquisition of expertise acts as motivation for our staff, enabling us to commit to providing top-notch services.

Our experts are selected on the basis of technical knowledge and social skills. We maintain a long term relationship with them, as the figures show: an average yearly staff turnover below 10%, and at least 18 days per year dedicated to training provided by EURA NOVA.

Our investment strategy allows us to continuously improve our proficiency, maintain our knowhow at the cutting edge of IT, and share these benefits with our customers. It allows us to meet our goal: we are happy only when our customers reach the highest level of satisfaction and thereby experience greater success.

In order to meet our customers' needs, we are offering 3 types of services: Expert Consultancy, Solution Delivery, and Innovation Advisory. With this catalogue, we present to you our Expert Consultancy services, supported by facts demonstrating our expertise.

Wishing you an inspiring read, we look forward to meeting you in person.

Hervé Bath, Eric Delacroix
Founders

EURA NOVA

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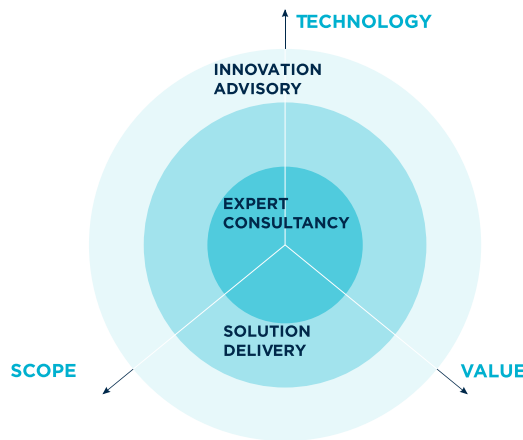
OUR KNOWLEDGE AND SKILLS POWER UP OUR GREAT IDEAS

VISION

At EURA NOVA, we are committed to bringing the best IT-related solutions to people with ideas around the world. We do so by transferring the most recent technologies from R&D to the industry.

VALUES

Collaboration, craftsmanship, integrity, and investment in the future are building stones to create value for our customers. A step-by-step tailored approach allows us to deliver high value with low investments, from lab to market.



OFFER

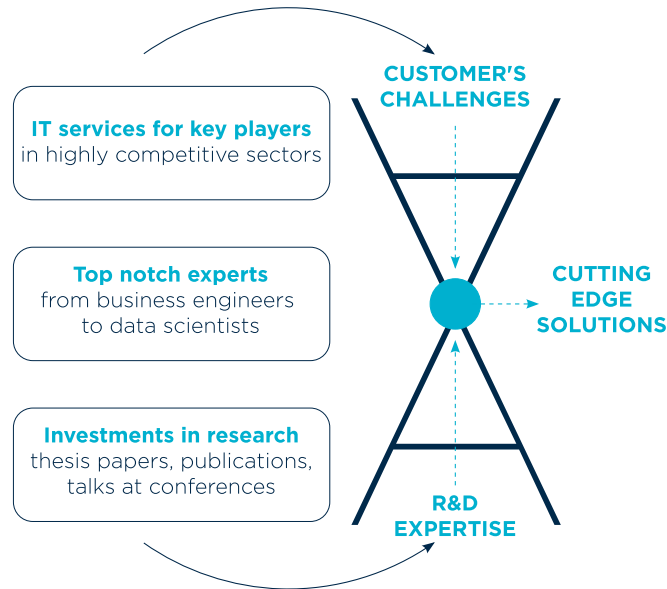
Our services range from expert consultancy, to IT innovation advisory, through to solution delivery projects. By adapting to our customers' environment, objectives and rhythm, we help them benefit from the most recent IT solutions.

OUTCOME

Our tailored approach and our Agile work process allow our customers to pick low hanging fruit and to keep up with new IT breakthroughs to leverage their business. This produces valuable improvement in their day-to-day tasks whilst keeping them on the path to sound innovation strategy.

WE TAILOR SERVICES RESULTING IN AN IT-BASED COMPETITIVE ADVANTAGE.

BUSINESS MODEL



SOME SUCCESS STORIES...

We supported a major telecommunication company **to shorten its software products development time.**

We applied **modelling and automation** techniques that lowered the customisation needs and reduced the **time-to-market** of our customer's software products **by up to 80%.**

We helped one of the top 5 pharmaceutical companies prove the value of immunisation campaigns.

We **modelled a disease outbreak** on the basis of a full set of parameters (household composition, target population for vaccination ...) showing full benefit to insurers.

Our **mobile-accessible solution** enabled our customer's sales representatives to **simulate the economic impact** of diseases spreading to a large population, and to adapt the model to specific conditions in any given country in **real time.**

We assisted a leading financial company in involving its business clients in product development.

We trained our customer's teams to use Agile methodologies and we **built a collaborative platform** in order to centralise and to share co-created standards and guidelines within the whole financial industry.

As a result, our customer sustainably improved in user experience and **deployed our solution worldwide**, which significantly **eased understanding**, not only between our customer's IT and business teams, but also **with all their clients.**

**WE CREATE INNOVATIVE IT SOLUTIONS
TO CREATE VALUE FOR CUSTOMERS.**

CONSULTANCY SERVICES TO LEVEL UP YOUR CAPABILITY

OUR APPROACH TO IT CONSULTANCY



ATTITUDE AS A CRITICAL FACTOR OF SUCCESS

At EURA NOVA, an engineer is not only someone who holds a degree or a title. An engineer is also and mostly someone who thirsts for knowledge and loves solving problems.

This is the reason why our recruitment process does not only consist of in-depth technical assessments; it includes assessing key soft skills such as determination, curiosity and open-mindedness.



CONTINUOUS DEVELOPMENT OF KNOWLEDGE AND SKILLS

We consider our experts to be long-term partners and we keep supporting their personal development on a day-to-day basis.

Our R&D department provides our experts with the means to stay at the top, such as internal R&D projects, specific training, and personalised coaching.

They spend at least 18 days a year acquiring the expertise required to remain top-notch and to overcome the challenges they face in their daily work.



WE CAN TAKE YOU FURTHER THAN YOUR TIME & MEANS EXPECTATIONS

We have a long-term and value-driven approach to IT consultancy. This allows us to go beyond traditional « off-the-shelf » services and to come up with innovative ideas.

WE CONSIDER OUR CONSULTANTS TO BE LONG-TERM PARTNERS. WE PROVIDE THEM WITH THE MEANS TO REMAIN TOP-NOTCH EXPERTS.

PRACTICALITIES OF OUR OFFER

Contract duration

Up to 2 years, up to 200 billable days per year.

Location

Our experts work at your premises and/or at our offices.

Areas of expertise

At the cutting edge of IT challenges. Find out more on following pages.

Pricing

Based on the level of knowledge and skills provided.

Price range: from €425 to €900 per day
Average rate: €630 per day

Wild card system

1 day workshop with a senior R&D architect offered for free every manyear.

WHAT CAN YOU EXPECT FROM OUR EXPERTS?



THE WILL TO BUILD BRIDGES AT THE SERVICE OF YOUR IDEAS

Our experts are not only IT specialists, they also understand your specific business challenges. They can pick and choose from the full array of IT products, knowledge and breakthroughs to meet your needs.



THE ABILITY TO HELP YOU MAKE BETTER DECISIONS

We are unbiased and therefore our recommendations for solutions are purely based on technical reasons. Our experts are supported by our back-office, technological watch, and wide network of specialists.



THE TALENT TO CHALLENGE THE STATUS QUO

This is at the root of EURA NOVA's corporate culture and part of the soft skills of our employees. We dare to think « out of the box ».

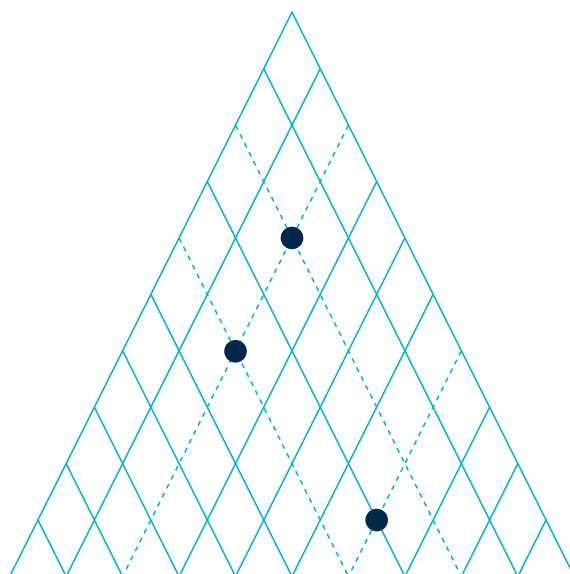


THE TASTE FOR EXCELLENCE

This is provided by EURA NOVA's vocational training program and by our upstream recruitment philosophy.

NEED MORE INFO? CONTACT US:
(T) (+32) 10 75 02 00 (@) services@euranova.eu

COULD YOUR ORGANISATION DO WITH A LITTLE MORE IT EXPERTISE?



**CHECK OUT WHAT IS RELEVANT TO
YOU IN THE FOLLOWING PAGES.**

Software Engineering

**FRONT-END
& MODELLING** (p. 11)

**BACK-END
OPTIMISATION** (p. 12)

**INFRASTRUCTURE
EVOLUTION** (p. 13)

Management

**AGILE PROJECT
MANAGEMENT** (p. 15)

**CHANGE & TRANSITION
MANAGEMENT** (p. 16)

**PROJECTS PORTFOLIO
MANAGEMENT & PMO** (p. 17)

Architecture

**ARCHITECTURE
METHODOLOGY** (p. 19)

**TECHNICAL
ARCHITECTURE** (p. 20)

**CONVERGENT
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Data Analytics

**DATA
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VISUALISATION** (p. 24)

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STORAGE** (p. 25)

IT Strategy

**INNOVATION
STRATEGY** (p. 27)

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**BUSINESS CASE
BUILD-UP** (p. 29)



FRONT-END & MODELLING

Select best fitting technical solution & language. Interconnect UIs. Design, build, test, deploy & maintain user interfaces, web portals, social collaboration platforms, web apps & mobile apps. Connect data objects using Eclipse Modeling Framework.

BACK-END OPTIMISATION

Enhance complex architectures and systems. Implement model-driven architecture on web portals and collaboration platforms. Automate web-apps installation. Build testing platforms. Provide complex event processing and in-memory graph solutions.

INFRASTRUCTURE EVOLUTION

Advise on architecture and installation of cloud-based solutions. Enable Infrastructure-as-a-Service (IaaS). Customize and implement tooling that makes DevOps possible and automate configuration management. Set up continuous integration.

Expertise

Modelling is a technique that can be used at any stage of a project, such as talks over requirements, UI definition, code generation, database schema description, communication protocols definition. It allows us to communicate efficiently with customers and it provides a solid formalised base for rapid prototyping.

Modelling helps us split different aspects of software products into components that lead to better decoupling of UI, business logic, database, and infrastructure. Consequently, the issued models are reused for large-scale production of both front-end and back-end components. In the iterative development process, the initial models help to quickly reach a final result, with each development cycle being validated by the customer. We apply the same modelling approach when a complex software component developed by experts needs to be extended with a simple ergonomic UI.

In our practice modelling is useful in many cases: when the problem domain is complex, when communicating and working with different people, when needing a highly formal level of abstraction, when planning to grow the number of features of a software product.

Experience

CUSTOMERS' CHALLENGES

Exchange and store data. Compute and display real-time results. Allow file management.

Share complex data models between multiple entities and promote these models as corporate standards.

Embed very complex logical components in very simple UI elements.

EURA NOVA's SOLUTIONS

Ergonomic web applications and web portals developed in the Agile mode.

Proof of concept and development of collaboration platform with connected data objects (CDO).

Customised modelling frameworks, interfacing with multiple UI technologies for end users and set up domain-specific language for declarative UI description.

OUTCOMES AND RESULTS

Ease of use, high adoption rate without training, and availability before completion.

High customer satisfaction and faster adoption thanks to close and agile cooperation.

80% development cost reduction for UI intensive applications, availability of new complex UI components for other purposes.

Services

PROFILES & ROLES

Web Developer, UI Developer, SW Developer, Scrum Master, Agile Developer, SW Engineer, SW Specialist, Graphical Designer, Analyst Developer, API Developer, Front-End Developer.

TECHNOLOGIES

Java (EJB, JPA, Webservice, Eclipse, Junit, Hibernate ...), JEE, UML, C, C++, XML, Web Services (SOAP, XML, HTTP, Ajax, JSON, REST), Python, Scala, HTML5, CSS3, JavaScript (Node.js, Angular.js, Ember.js, React.js).

Expertise

Information management systems collect powerful data that often require significant resources to deliver their added value.

Furthermore, application's eco-systems—built iteratively—can provide better services while using less power. The only way to get there is to master the most recent optimisation methods and tools.

We, at EURA NOVA, have acquired deep knowledge in techniques for optimising your system back-end. We can offer you our expertise to design and implement high performance systems that meet business needs related to response time, reliability, availability, information persistence, and scalability.

Experience

CUSTOMERS' CHALLENGES

Analyse series of complex events from the Internet, their network and infrastructure, to trigger real-time marketing campaigns.

Need to offer their clients a way to create interactive social networks.

Need to challenge suppliers and to guarantee systems continuity with roadmap in line with budget, requirements and priorities.

Get rid of the latency of their communication platform. Put an end to functional regressions of the applications after release.

EURA NOVA's SOLUTIONS

An event-processing product, with a traversal engine for event correlation and a graphical interface for patterns definition.

Design and implementation of a social collaboration platform using algorithms and distributed storage.

Creation and maintenance of a web platform for model management, with continuous integration solutions and operational optimisations.

Architecture redesign by functional blocs, implementation of messaging APIs, and documentation to ease maintenance. Dedicated platform and process for testing.

OUTCOMES AND RESULTS

Product allowing analysis of 80.000 events/sec/core.

Custom graph mining possibilities, e.g. to identify the shortest path, the ranking, the influencers ...

Modular, flexible, and easy-to-use system. No more unplanned downtime.

Improved performance via scalability techniques. Speedier data synchronisation. Increased customer satisfaction. Regressions avoided. Higher customer maturity on development and testing activities.

Services

PROFILES & ROLES

System Engineer Application and Web-Application Server, SW Integrator, SW Engineer, SW Specialist, Middleware Engineer, API Integrator, High Availability Specialist, High Scalability Specialist.

TECHNOLOGIES

Communication and collaboration solutions, JEE architecture, Event-Driven Architecture, Complex Event Processing, in-memory graph DB, MQ, Enterprise Service Bus, VMware, XFB, Jenkins ...

Expertise

Breakthroughs in the way IT infrastructures can be built offer a wide range of solutions to host companies information and applications. Behind the business opportunities granted by next-gen data centres and cloud-based solutions stands the technical challenge for getting there.

EURA NOVA's experts can help you from the start of this journey by providing advice and architecture work, both for the setup of your cloud and for the migration of your data and software. They can act on every level of the cloud model: Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS).

On top of this, our experts will assist you in identifying, customising and implementing the solutions to run your new infrastructure as you wish. The solutions we often recommend are DevOps enablement, set up of continuous integration, and automation of configuration management.

Experience

CUSTOMERS' CHALLENGES

Build a platform for storage and real-time processing of data from the Internet of Things and related analytics.

EURA NOVA's SOLUTIONS

Inventory of required components, integration on a platform, and delivery of applications connecting them.

OUTCOMES AND RESULTS

Distributed platform integrated. Very low maintenance costs thanks to automated tooling. DevOps workflow enabled.

Automate deployment and configuration of large sets of machines based on predefined blueprints.

Installation of configuration and orchestration tools, facilitating management of a distributed infrastructure.

All machines of a same platform redeployed in an automated and reproducible way, leading to better efficiency and confidence.

Set up a private cloud to provide IaaS internally.

Tailored open-source solutions best fitting with requirements.

Knowledge acquired by the customer. Private cloud in use.

Deploy pre-existing applications from an external cloud to a private data centre seamlessly.

Analyse gap between current and target infrastructures. Propose solutions considering migration constraints. Provide tech support.

Migration completed on time and on quality. Knowledge documented and transferred to allow further applications migration.

Services

PROFILES & ROLES

Cloud Architect, Cloud Integrator, DevOps Specialist, SW Engineer, SW Integrator, System Engineer.

TECHNOLOGIES

IaaS/private cloud deployment: OpenStack, OpenNebula.

Continuous integration: Jenkins, Git, Gitlab, Artifactory, Maven.

Infrastructure automation and monitoring: Chef, Ansible, Ganglia, Monit, ...

Software deployment and resource management: Zookeeper, Mesos, Docker, Yarn, ...



AGILE PROJECT MANAGEMENT

Set up Agile project organisation. Lead product development projects. Enable faster time to market. Increase customer satisfaction and experience. Improve collaboration and communication between stakeholders.

CHANGE & TRANSITION MANAGEMENT

Lead organisational, process and tooling projects. Enable wide re-organisation, in driving tactical and operational change management projects. Allow multiple entities to work together. Manage process engineering and software interfacing.

PROJECTS PORTFOLIO MANAGEMENT & PMO

Design and set up projects portfolio management. Analyse, improve, control and report portfolio status. Enhance resource capacity management. Prepare and forecast IT budget. Coach on PM and PPM methods and tools. Promote adoption of process.

Expertise

The Agile approach has reached a very strong position in the project management landscape by lowering risk and accelerating value delivery for development projects.

Result-oriented managers who decided to generate value from their projects iteratively have already opted for Agile. Whether you have already gone for it or are considering doing so, we can provide you with experts in the Agile principles and the SCRUM methodology to coordinate your development projects. They can facilitate team collaboration through Agile and quality management that will increase the value of products.

Experience

CUSTOMERS' CHALLENGES

Software development teams were not delivering as expected. Their methods and best practices had to be challenged.

EURA NOVA's SOLUTIONS

Analysis of activities, skills, and roles of the various teams. Improvement proposals. Shadowing and coaching.

OUTCOMES AND RESULTS

Leaner way of working, rationalised processes, and optimal distribution of roles and responsibilities.

The customer had never worked in an Agile mode and was looking for a way to develop innovations with minimum investments.

Training and implementation of best practices such as short iterations and continuous user feedback.

Increased maturity in software development. The exploratory approach has maximised value obtained from minimal efforts.

IT engineering team were struggling to meet customers' needs.

A user-centric approach, favouring prioritised user stories over functional requirements.

Approach deployed at wider scale. Eased understanding between business and IT development teams.

Services

PROFILES & ROLES

IT/IS Project Leader, Agile Project Manager, Senior Application Engineer, Product Leader, Business Analyst, SW Development Coordinator, Agile Expert, SCRUM Master, Coach and Methodological Expert.

TECHNOLOGIES

Project management methods and tools: Agile, SCRUM, DevOps, XP Programming, PMBoK, Atlassian suite (JIRA, JIRA Agile, Confluence, Stash, Bamboo ...), MS Project, MS Sharepoint, ERPs ...
Quality management methodologies (Lean, 6 Sigma, FMEA, AMDEC, QFD ...)

Expertise

Change management and transition management are complementary disciplines. Transition management is about reshaping IT within organisations in a way that is as smooth as possible for the business departments. Change management is a rising practice aimed at making it possible for organisations to get the expected benefits from projects and more. It eases the adoption of change by staff and by the organisation before, during, and after projects.

We are experienced in both practices and we provide managers with sustained and significant support at strategic level as well as at staff levels. Acting on processes, people, and tools, our experts can drive your tactical and operational projects in areas such as setting up new workflows, designing interfaced software, training, coaching, and adoption of change by users. They can support you through the whole change management in your entity or group.

Experience

CUSTOMERS' CHALLENGES

Transfer IT engineering and IT support activities to a 3rd-part supplier without impacting the service levels agreed with the business departments.

EURA NOVA's SOLUTIONS

Coordinated setup of an IT service management process and tooling interfaces. Detailed designing and testing of highly critical activities all along the process value chains.

OUTCOMES AND RESULTS

Bridges between companies were designed, built, tested, and implemented. The quality of IT services was kept up while costs were saved.

Transform a large and complex organisation. Change roles, responsibilities, activities, and habits of hundreds of people. Ensure adoption of the new **modus operandi**.

Early and continuous involvement of a representative group of users in the definition and validation of new work practices. Management and support of the operational adoption and aftercare.

Change project delivered on time, on budget, and on quality. Change agents empowered. In-depth strategic changes and yearly savings of several million Euros.

Services

PROFILES & ROLES

Change Leader, Change Manager, Business Analyst, Process Expert, Project Manager, Program Leader.

TECHNOLOGIES

PMBok, PMI, Prince2 Practitioner, Change Management Techniques, Risk and Issue management, Agile, ADKAR, ITIL, CMMI, LEAN, Six Sigma, CMDB, CA Clarity OpenWorkbench, HP ITSM, MS Visio, MS Sharepoint.

Expertise

Sound Project Portfolio Management (PPM) implies taking both organisation characteristics and enterprise architecture into account, in order to efficiently support the corporate strategy.

EURA NOVA's tailored approach helps your organisation build its own PPM roadmap, considering the added value of the PPM capabilities, and the Project Management maturity level of your company.

To make your PPM framework match your corporate goals, EURA NOVA's PPM experts can provide you with support in the first runs of your PPM activities. This will ease the adoption of best practices by the Project Management Office (PMO) and the transfer of knowledge to your teams.

Experience

CUSTOMERS' CHALLENGES

Enhance governance and maximise value delivered from enterprise investments.

Improve reporting and control of top management over a large strategic program.

Level up projects success rate without top management spending too much energy in follow-up.

Reduce projects bottlenecks in several IT teams. Increase predictability for client and delivery teams.

Increase knowledge and skills of the IT PMO team.

EURA NOVA'S SOLUTIONS

Deployment and run of demand management process and IT portfolio status follow-up.

Reporting standardisation. Aggregated view on projects statuses, budgets, costs, and benefits.

Status reporting process implementation and setup of management by exception at portfolio level.

Root cause analysis. Identification of priorities and dependencies. Optimal budget allocation, staff capacity, and projects workloads.

Management by example, coaching, and knowledge transfer.

OUTCOMES AND RESULTS

Better fit between portfolio mix and corporate strategy. Gain in efficiency with rational budget allocation and prioritisation.

Predictability increase. Decision making supported by tangible and consistent information.

Optimal ratio between effort and impact of top management involvement. Full portfolio coverage, management by exception.

Less bottlenecks, faster deliveries, and simplified communication between project managers, finance team, and technical teams.

Higher involvement of team members, increased service level.

Services

PROFILES & ROLES

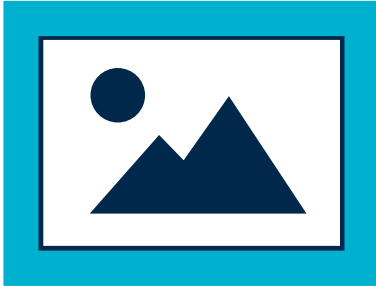
Project Manager, Investment Manager, Demand Manager, Agile Project Manager, Coach and Methodological Expert, Senior PMO, Portfolio Officer, PMO Team Leader.

TECHNOLOGIES

PM Methods: PMBoK, PMI, Prince 2, Agile, SCRUM, Change Management.

PM and PPM Tools: CA Clarity OpenWorkBench, MS Project, Jira, Enterprise Resource Planning Software.

Quality Management, Lean Six Sigma, KPIs, Performance Management & Accounting



ARCHITECTURE METHODOLOGY

Audit and benchmark. Analyse gaps, propose solutions and best practices. Implement changes and optimise processes. Advise on asset management governance. Support in information and network security management.

TECHNICAL ARCHITECTURE

Analyse business and functional requirements. Assess impact on architecture. Propose optimal cost/quality solutions. Promote pooling practices and ease interactions between technical domains. Align strategic, business and IT roadmaps.

CONVERGENT ARCHITECTURE

Define and implement best-fitting event-driven architecture. Integrate Hadoop stack, real-time processing, and pattern-matching engine. Deploy complex systems. Tailor Platform-as-a-Service (PaaS) solutions. Optimise distribution of resources.

Expertise

Architects can maximise the return on enterprise investments by adopting a methodical approach. By enforcing a coherent and consistent framework, architects will be able to design solutions that better meet business needs, the enterprise eco-system, and external constraints.

Our expertise in architecture management and transversal knowledge - from infrastructure to business processes - can help you enforce corporate standards and policies. Our architects also have the knowledge and skills to assist you in the day-to-day management of your IT assets. They can manage your information network security and implement the best practices for your industry.

Experience

CUSTOMERS' CHALLENGES

Unsatisfactory incident solving due to complex architectures that were not always documented, or were so with various levels of readability and traceability.

Need for a Belgian subsidiary of a large corporation to adopt corporate policies and technical standards.

Need to fix major issues detected by external auditors and mitigate risks on applications availability.

EURA NOVA's SOLUTIONS

Installation and implementation of a documentation solution for critical applications. Upgrades to asset management and architecture processes.

Construct scenarios considering contextual risks and value, to ensure that identified solutions fit customers' strategy.

Identification and completion of mitigation actions in task force mode.

OUTCOMES AND RESULTS

Architecture of most critical applications documented, which led to reducing incident solving time.

Our customer became compliant with the group's standards and their transition was supported and smooth.

Customer in control of affairs. More and safer SLA's.

Services

PROFILES & ROLES

Infrastructure Architect, Middleware Architect, Software Architect, Application Life Cycle Specialist, Technical Solution Architect, Process Manager, Process Expert, Identity and Access Management Specialist, Network Security Expert.

TECHNOLOGIES

Enterprise Investment approach, TOGAF, Enterprise Architecture 3, Zachman, Archimate, ISO 27000 series, Service Oriented Architecture, UML ...

Expertise

Business departments often face technical constraints when receiving feedback on their requirements from operational and technical teams. In this context, technical and solution architects play a key role, helping both functional and technical teams to meet their goals.

Years of experience in highly-regulated environments have provided our consultants with significant expertise in analysing business and functional requirements, assessing impact on architecture, and proposing sound technical solutions.

Experience

CUSTOMERS' CHALLENGES

The infrastructure had been built iteratively with heterogeneous components, and was getting more complex and costly.

IT architects faced difficulties in meeting business requirements.

Comply with architecture rules imposed by the market and strengthen their adoption by technical teams.

EURA NOVA's SOLUTIONS

Work on the customer's existing architecture process. Promotion of functional and architectural best practices.

Sharing state-of-the-art knowledge. Identifying optimal cost and quality solutions.

Disruptive suggestions to both executive managers and technical teams thanks to a fresh and unbiased view on the industry.

OUTCOMES AND RESULTS

Convergence and pooling of resources, economies of scale, and higher control over exceptions.

Solution for critical projects with international partners.

Architecture designs allowing projects to better comply with risk and security management principles.

Services

PROFILES & ROLES

Solution Architect, Enterprise Architect, Infrastructure Architect, Infrastructure Manager, Security Expert, Security Engineer, Identity and Access Management Expert, Technical Solution Architect, SW Architect.

TECHNOLOGIES

TOGAF, Zachman, Enterprise Architecture 3, ArchiMate, BPMN, Service Oriented Architecture.

From Infrastructure to Business Processes through to Applications and Security.

Physical, Virtual, Web Infrastructure & Middleware: Storage, Windows and Unix Servers, Websphere, DataBases, MQ, XFB, and Network.

Expertise

Architectures developed by Internet players have always proven far better at solving challenging issues than traditional enterprise architectures. Today this technology is available to any organisation. This is a fantastic opportunity to make their existing IT enterprise architectures converge with Internet-type architectures.

We developed expertise in desining and implementing best fitting event-driven architectures (EDA), Platform-as-a-Service (PaaS) solutions, and more. We can help you address your trickiest challenges in the design, implementation, integration, installation, support, and maintenance of complex systems such as Hadoop, real-time stream processing, distributed resource scheduling, and pattern-matching.

Experience

CUSTOMERS' CHALLENGES

Information was collected in silos, which hindered correlation tasks and was a suboptimal usage of the infrastructure.

EURA NOVA's SOLUTIONS

Proofs of concepts showed that EDA was the right solution. We implemented a system of complex event processing (CEP), an enterprise service bus (ESB), and Android and web user interfaces.

OUTCOMES AND RESULTS

Integration of initially isolated architecture components into an EDA. Enablement of correlation between historical (internal) and real-time (external) events.

Need for an in-house Data-as-a-Service solution, in order to ease the integration and the orchestration of a distributed framework.

A highly scalable job-analytics platform for efficient resource management, elasticity, and dynamic horizontal scaling. A set of APIs and a configuration-based approach for straightforward integration of any distributed processing framework.

Standard and simpler integration, orchestration of configuration management tasks, optimised cluster resource scheduling. High efficiency increase in everyday work of customer's data science activities.

Services

PROFILES & ROLES

Application Architect, Data Architect, System Engineer, Senior Solution Architect.

TECHNOLOGIES

Service Oriented Architecture, Systems Integration, real-time and batch processing of Big Data, Hadoop, Spark, NoSQL, Event-driven Architecture, Internet of Things, APIs.



DATA SCIENCE

Model problems, implement and optimise algorithms. Set up incremental and/or distributed pattern recognition and machine learning. Provide predictive analysis. Generate new features. Enable standardisation and use of data models.

DATA VISUALISATION

Create ergonomic user and web interfaces. Upgrade tooling and libraries. Design and integrate large-scale, real-time, data visualisation. Build browsing features and simplify monitoring of complex data models.

DATA STORAGE

Set up distributed storage and indexing for structured, semi-structured, and unstructured data, using the relevant architecture, from relational DB to leading NoSQL technologies (graph, document store ...). Configure storage solutions to enable real-time querying.

Expertise

Predictability of your business and activities is a core competitive advantage in today's fast-moving world. Data analytics has become the most powerful lever to better address business challenges and opportunities. However, information availability, information processing, and insight generation are hurdles that may prevent your company from acquiring this advantage.

Our experts can help you build data-driven solutions and integrate these to your operational architecture. We can also audit your existing data and we can process them using algorithms and machine learning techniques. This will allow you to go beyond traditional business intelligence, to support up-selling and cross-selling, and to feed your business with real-time predictive analysis.

Experience

CUSTOMERS' CHALLENGES

Mass information available but need for data scientists to make better use of it.

Machine learning algorithms optimised to run on 1 machine only had become too slow for Big Data.

Unsatisfactory accuracy of predictions.

Head of marketing wanted to predict future clients and react more quickly to clients' needs.

EURA NOVA's SOLUTIONS

Benchmarking data-driven solutions. Collecting data into datasets, and predictive models.

Redesign and development of algorithms on distributed high-performance infrastructure.

Use of feature engineering, deep learning, and efficient algorithms for very large datasets.

Combined historical, real-time, and contextual data. Pattern-matching correlation engine. Machine learning on data streams. Insights into customers' interactions.

OUTCOMES AND RESULTS

Product recommendation engine, prediction of purchase type and frequency, and volume of client types over time.

Speedier processing with maximum accuracy.

Simplification of feature engineering, higher accuracy in churn prediction.

Better customer experience. Better responsiveness, relevance and predictability.

Services

PROFILES & ROLES

Data Scientist, Machine Learning Expert, BI Specialist, BI Engineer, BI Functional Analyst, CRM and Segmentation Analyst, Business Analyst, Data Quality Analyst, Master Data Management Specialist.

TECHNOLOGIES

DB Technologies: SQL (Oracle, MS Server ...) and NoSQL (GraphDB, Cassandra, HBase, MongoDB ...)

Data Mining tools: Weka, Rapidminer, Scikit-learn, R, SAS. ETL (Ab Initio, Talend, Datastage ...).

Web Analytics Tools (Google prediction, Azure ML ...).

Data Processing technologies: from single machine (Pandas ...) to cluster (Hadoop, Spark, Storm, Pig, Hive ...).

Business Objects, Cognos, Pentaho.

Expertise

The amount of information available to drive companies and manage businesses is now so large that its processing often has to be rethought. In this context, data visualisation becomes the asset that makes a big difference.

We support your Business Intelligence (BI) specialists, managers, and data scientists by providing them with leveraged libraries, data exploration means, visual analytics, charts, correlation matrixes, simplified monitoring, and optimal use of resources.

Experience

CUSTOMERS' CHALLENGES

Dataset has become too large, existing solutions have become too slow.

Skills for monitoring raw analytics were scarce.

Big players' standard solutions were not customisable and had integration constraints.

EURA NOVA's SOLUTIONS

Incremental processing of very large datasets. Results monitoring at user-defined steps of the data model.

Ergonomy-driven graphical reports and leveraged libraries.

Tailored visualisation features, fully integrated with customer's tools.

OUTCOMES AND RESULTS

Animated exploration of results, correlations, with drill-down possibilities.

User-defined generation of charts, e.g. scatter plots, bar charts, histograms, geographic maps over time.

Scalable solution with optimal feeding of results to connected user interfaces.

Services

PROFILES & ROLES

Data Modeler, BI Engineer, BI Specialist, BI Front End Developer, Data Visualisation Specialist.

TECHNOLOGIES

HTML5, JavaScript (D3.js, Data.js, Gephi, Google Chart Tools ...), JfreeChart, QlikView, Kibana, Spotfire.

Expertise

The volume of data, the amount of sources, and the diversity of types of data are growing. Data tends to be processed in real time in order to allow fast decision-making. As a result, selecting data storage solutions has become more critical than ever for IT departments.

Well aware that there is no « one-fits-all » solution, we can provide expert services for assessing, proposing, implementing, and supporting your data storage systems.

Experience

CUSTOMERS' CHALLENGES

Current data storage solution not fitting with graph data. Need to benchmark and select the most relevant NoSQL solution.

Need to modify storage solution to enable processing of real-time graph queries.

Increase value from data relations by transforming flat data into graph.

EURA NOVA's SOLUTIONS

Assessment of users' needs and technical constraints. Identification of best scenarios and design of the related target architecture.

Proposal, design, testing, and integration of APIs.

Setup of efficient distributed storage and indexing of graph data, using high performance and high availability NoSQL solution.

OUTCOMES AND RESULTS

Fast and sound decision making, considering internal and external criteria: cost versus value, maintenance, upgradability, scalability, and governance.

Graph queries made available, allowing usage of graph DB in NoSQL. Storage and querying capabilities for graph data structure.

In-depth knowledge transfer to the customer, who made products based on the prototype we delivered.

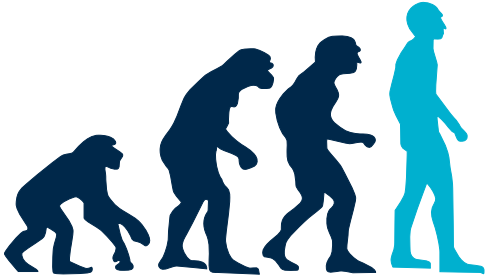
Services

PROFILES & ROLES

Cloud Integrator, Data Architect, Data Modeller, Data Warehouse Engineer, BI DWH Developer, Big Data Specialist.

TECHNOLOGIES

SQL (Oracle, MS Server ...), NoSQL (GraphDB, Cassandra, HBase, MongoDB, Neo4J ...).
HDFS, XML, Amazon Web Services, Spring Data Solr, Elasticsearch ...



INNOVATION STRATEGY

Study the market, the competition, and propose prioritised action plans to seize opportunities. Act as 3rd party research lab and select disruptive technologies to ease business transformations.

BIG DATA

Open the way for mass information management. Seize and exploit business opportunities. Design, propose, and build tailored data architectures. Develop distributed storage systems and processing. Provide predictive analytics and insights.

BUSINESS CASE BUILD-UP

Analyse gaps and provide recommendations. Identify best-fitting technical opportunities to tackle strategic challenges. Draw innovation roadmaps to create value. Leverage effect of investments in new technologies.

Expertise

Innovating to gain a competitive edge is a strategy used by many. Yet, without the right people and skills, innovative ideas, however great, just can't materialise.

Our professionals can help you define and implement your IT innovation strategy. This includes carrying out market assessments, in-depth studies, and competition analyses. We then identify emerging markets or technical opportunities. Finally, we draw up possible scenarios and identify which conditions need to be met before seizing opportunities. There is a cherry on the cake: not only do we advise you on innovation strategy; we pull resources from our advanced research lab to serve your project.

The combination of all the above is why we make a big difference.

Experience

CUSTOMERS' CHALLENGES

Telecom technologies are changing fast and equipment providers have had to adapt to market demand, new trends, and to the need for a significant competitive advantage.

EURA NOVA's SOLUTIONS

Since 2009 we have been issuing yearly strategic transformation guidelines. We have drawn up projects to anticipate changes with a 2-year headstart.

OUTCOMES AND RESULTS

Successful products rollout in areas such as: marketing automation systems, network management, and customer experience management.

Our customer wanted to assess the value that Big Data solutions would bring compared to their current data analytics solution. They then needed to identify the best Big Data move.

We developed a maturity grid and a maturity assessment audit for assessing technology, organisational, and process maturity levels.

Customer's ability to pin-point blocking points and to define their evolution path.

Services

PROFILES & ROLES

Business Analyst, ICT R&D Expert, ICT R&D Manager, ICT R&D Advisor, Transformation Advisor.

TECHNOLOGIES

Innovation Management, Big Data, ICT R&D.
Information Systems & Technologies Management.

Expertise

Having grown in volume, variety, and velocity, data have become the best tool to seize business opportunities. The problem is: they have become too large and too complex for processing with traditional means.

Thanks to our sustained efforts in R&D and our strong involvement with pioneer companies, we have developed end-to-end solutions that make it possible for our customers to use Big Data easily.

Our Big Data expertise includes finding and setting up the best solutions in the following areas: infrastructures and related tooling, data auditing, modelling, partitioning, machine learning, algorithms, distributed processing, automation, visualisation, and insights generation. These are tools to help our customers leverage their business.

Experience

CUSTOMERS' CHALLENGES

Transition from the traditional data warehouse to a data lake, to manage Big Data.

Process 4TB in a few minutes to generate predictive models in marketing, consumer behaviours, and experience. Existing solutions requiring full re-computing.

Shorten the time to market of new predictive models. Complex algorithm design and handling. Automate integration and publication of mining jobs.

Store and mine a subscriber graph of 500 million nodes and 3 billion connections. Existing solutions neither able to store it, nor to provide a processing layer.

EURA NOVA's SOLUTIONS

Tailored data models. Distributed storage systems as well as data processing. Predictive analytics and insights generation tools.

Distributed, in-memory platform with a framework equipped with machine-learning ability. Mathematical reformulation of 15 machine learning algorithms.

Design flexible data Platform-as-a-Service (PaaS) and set automated layers for features selection, algorithm recommendations, deployment, and execution.

Distributed graph storage and model with tailored NoSQL distributed databases (DB). Modified query layer to implement efficient traversal engine supporting graph queries.

OUTCOMES AND RESULTS

Flexible and scalable data lake, first use cases implemented on several frameworks. Productisation.

High performance machine learning system integrated into real-time decision system, simulating ROI of large marketing campaigns.

Shorter time to market and better results thanks to automatic feature selection. Optimised usage of the cluster thanks to the fully automated stack.

Requirements fully met, completed by additional extensible graph and flexible indexing schemes. Productisation.

Services

PROFILES & ROLES

R&D Advisor, Big Data Architect, Insight-driven Architecture Specialist, Data Warehouse Architect (DWH), System Engineer, BI DWH Developer, Senior Data Scientist, Program Manager.

TECHNOLOGIES

Innovation management, ICT R&D, Internet of Things, mobile apps, APIs, Cloud services, use of social data. Mass media, mass marketing, communication and collaboration solutions, context-awareness, machine learning. Lambda architecture, Hadoop, Spark, Cloudera ...

Expertise

In the past few years, many companies set up strategic departments aimed at identifying and assessing the technologies that best address their business challenges.

We cross our R&D expertise and our knowledge of the market with a thorough analysis of our customer's business processes and current information technologies. We then identify the path to maximise the return on investment (ROI) of each action.

We assist our customers along the innovation process in selecting projects that maximise ROI.

Experience

CUSTOMERS' CHALLENGES

Selection of technologies that both ease information management and meet the needs of several departments.

The customer was under pressure to change their services because of external constraints.

Ideas needed to be qualified and quantified, while budget was fixed and resources were constrained.

EURA NOVA's SOLUTIONS

Audit business processes in order to identify the main challenges, so as to achieve the objective.

R&D workshops to help attendees have a better grasp of what new technologies can really do for them.

Financial and operational construction of business cases.

OUTCOMES AND RESULTS

Defined, framed and launched strategic projects across several domains of customers' organisation.

Prioritisation of technological opportunities based on impact.

Predicted cost and ROI of initiatives.

Services

PROFILES & ROLES

Business Analyst, Business Process Manager, Lean Specialist, Functional Analyst, Strategic Marketer.

TECHNOLOGIES

Market study, Business analysis, Benchmarking, Competitive analysis, BPM, BPMN, Lean Six Sigma.

EURA NOVA'S PROJECT AS A SERVICE

Are you looking for
LONG-LASTING IT SOLUTIONS
with **QUICK YIELDS?**

Pick up the phone and find out how!

We also **DELIVER**
tailor-made
IT SOLUTIONS

LET'S BUILD YOUR NEXT SUCCESS STORY TOGETHER

EURV
NOVA

- Can the new IT era help me boost my business?

- Is there a risk of yet another lost investment?

- How can I catch the train on time?

- ...

- Can IT help the world become a better place?
- Can a partnership with EURA NOVA make my work life easier?
- How?
- ...

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