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world of web applications

Road to GWT 3

Get inspired by our case studies:

Magnolia, Puma, TNT and many more.

Hello World, Hello Nature: Johannes' photographs show the beauty of nature

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This is a magazine for your inspiration. Here we introduce a few of our case studies along with insightful articles about the team behind Vaadin. Take a moment and enjoy.

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When passionate people meet, bright ideas are born

What do we need for developing the best possible tools and services for web applications? A passionate group of guys and gals with a mission of continuous improvement. “We are explorers of what is possible and our goal is to make the impossible easy. The team breathes technology and loves to share thoughts with one another and the community of like-minded developers around the world,” says Joonas Lehtinen, CEO and co-founder.

Vaadin was born with this idea in mind in July 2000 in Finland.

– At the time we were developing a large web-based solution for the health care sector and we noticed that all available tools and methods were too arduous to use in a project of this scale. So we founded Vaadin to offer the much needed technology and services for software development teams everywhere, says Lehtinen.

Over ten years have passed since the company was founded and the development has been fast. Today, over 100,000 developers from all around the world use the developer portal each month. The company has offices in Finland, the US and Germany.

Together U and I

Vaadin’s team consists of over 60 developers who have a passion for bending the limits of what is possible to do in web. Technology, innovation and openness are essential at Vaadin.

The way of building a solid open foundation is reflected both in the product as well as in the company culture. According to Lehtinen, there is always space for one more talented professional on the team. Technology and innovation are valued over convention and status quo.

– Our mission is to make the building of the best possible web application user interfaces easier and easier. New ideas and continuous learning are welcomed and we encourage our staff to speak up and find solutions together. Developers can use 10% of their work time to innovate freely, participate in the community and build whatever they want outside their regular projects. It is all about expressing oneself and belonging to our community. The results are best seen in Vaadin Directory and in Tori, the Vaadin forum.

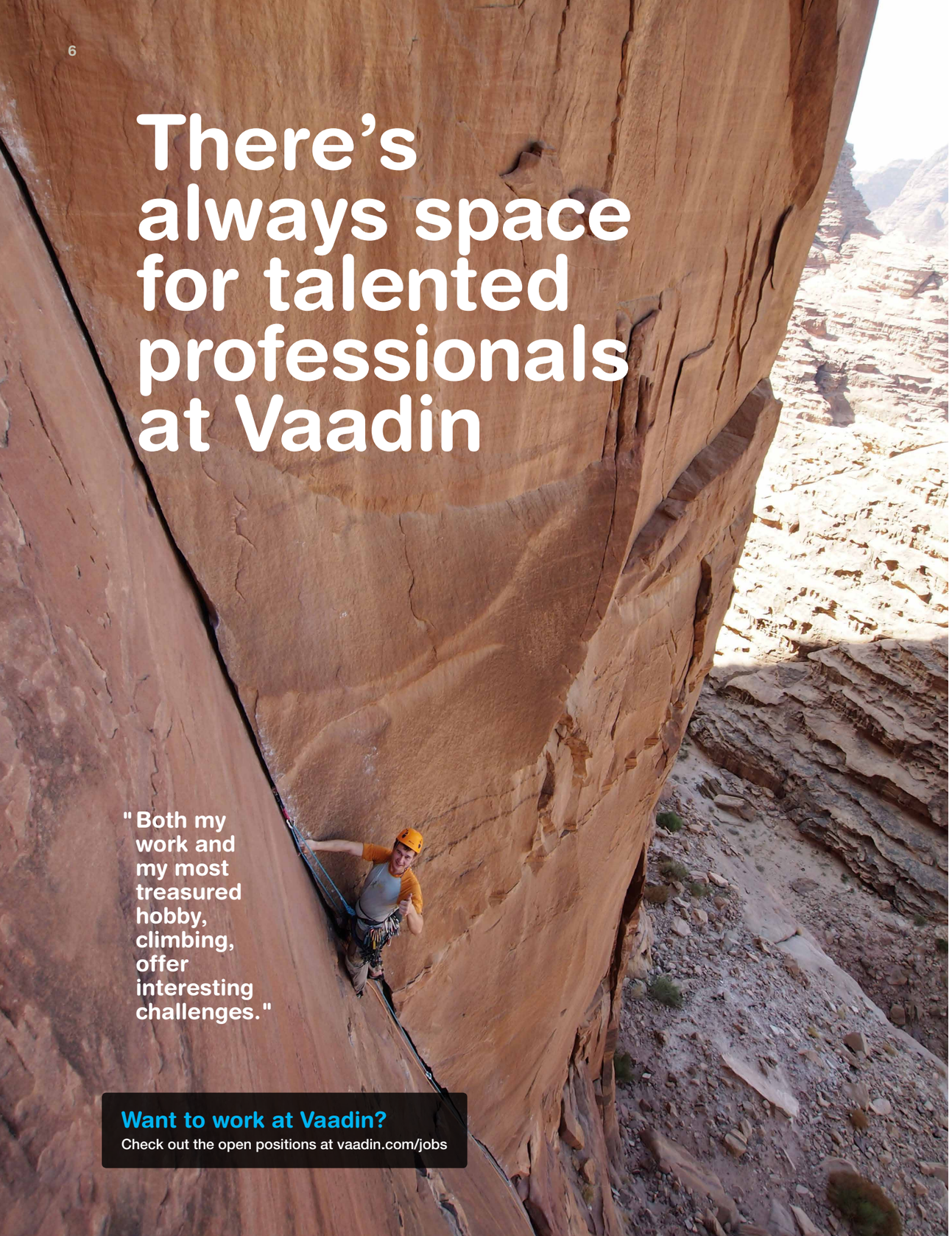
Great Expectations

Vaadin’s core technology is free and open source. Commercial products and services add value to software development projects that are using Vaadin Framework.

– Our expertise in web technology, java enterprise technologies, usability and design are created to complement the work of our customer’s team – either directly or by building products for developers, Lehtinen sums up.

Vaadin is constantly evolving and the company’s focus is clear. So, what is the next step? Just wait and see.]>

There's always space for talented professionals at Vaadin



"Both my work and my most treasured hobby, climbing, offer interesting challenges."

Want to work at Vaadin?
Check out the open positions at vaadin.com/jobs

Vaadin is one of the Great Places to Work companies in Finland and working here gives developers a great opportunity to work their magic around the Vaadin Framework. The team breathes technology and loves to share thoughts with one another and the community of like-minded developers around the world. Every member of the team is hand picked, and we try hard to offer people a workplace that they enjoy to come to every day. Vaadin is growing with such a pace that new opportunities for both professional and personal growth arise continuously.

Meet Jonni, one of our developers

"I'm a sporty nerd who seeks new technologies. Earlier I worked in a smaller software company and studied IT in the university.
A headhunter contacted me through LinkedIn and I got interested in developing my career at Vaadin.
During the first month I was in a training project, which was a good introduction to the tools. I also had a tutor. I currently work as a developer in a team of four guys in Services. Agile development is the key! In the future it would be interesting to widen my job description and get a chance to work in the R&D team or as a project manager.

In my work, I need versatile software knowledge, I have to learn what different browsers are capable of and how to create appealing user interfaces. I also need to understand the problems, think quickly and be eager to find solutions.

As a workplace Vaadin is open, skilled and constantly evolving.
The work environment here is really good and in fact, Vaadin has been successful in many "Great places to work" listings. Another big reason for me to work here is the whole open source mentality.

Both my work and my most treasured hobby, climbing, offer interesting challenges. I have been climbing in Jordan, Åland Islands and the French Alps. I find new energy at the mountaintops!" ⟩>

RUMS
SAIC (USA) Aerospace

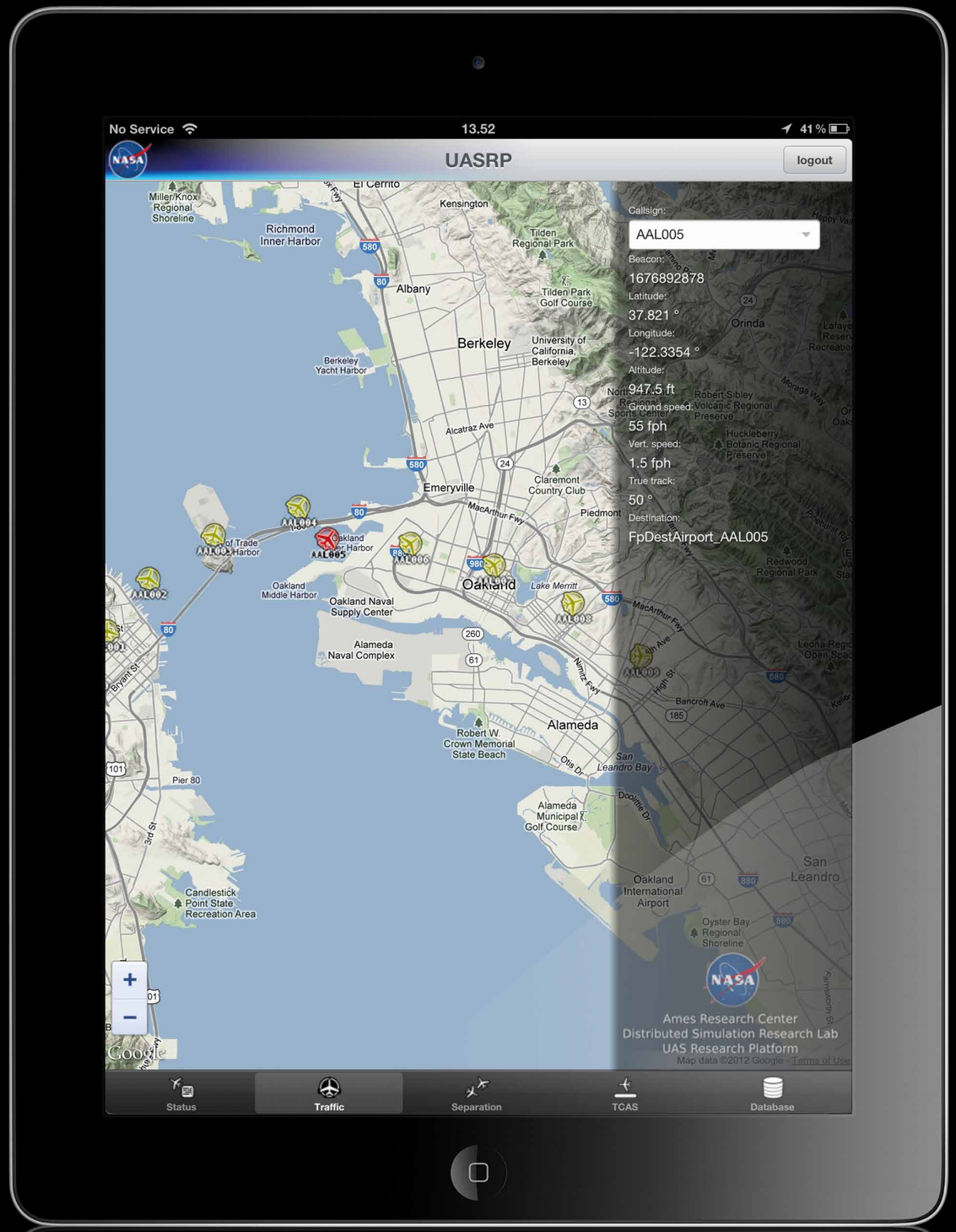
The Remote User Monitor Station (RUMS) is a web portal created to facilitate certain NASA air traffic research experiments by allowing researchers to interact with the Unmanned Aircraft Systems Research Platform (UASRP) in the Distributed Simulation Research Lab (DSRL) of the SimLabs group at NASA Ames Research Center.

RUMS is a Vaadin application that allows authenticated users to monitor an experiment in real-time outside of the DSRL environment, and allows users to download research data from the UASRP server on-demand. The RUMS client features a live display showing the DSRL simulated air traffic in real-time. RUMS also enables user interaction with other components of the UASRP such as a SQL database. In addition, RUMS provides simulation status information as well as graphical representations of statistical measures regarding aircraft separation and traffic collision avoidance data.

From the RUMS user's perspective, using the Vaadin framework enables researchers to access the UASRP in the simplest possible way: with only a web browser, without special plug-ins, and without placing any other installations or usage dependency requirements on the user's end. From the application's architecture, development, and maintenance point of view Vaadin leverages our in-house Java expertise and allows us to take full advantage of the rich Java library APIs.

- George Soler, Aerospace Software Architect, SAIC -

https://vaadin.com/showcase/rums



Space Applications Services (Belgium)
Aerospace

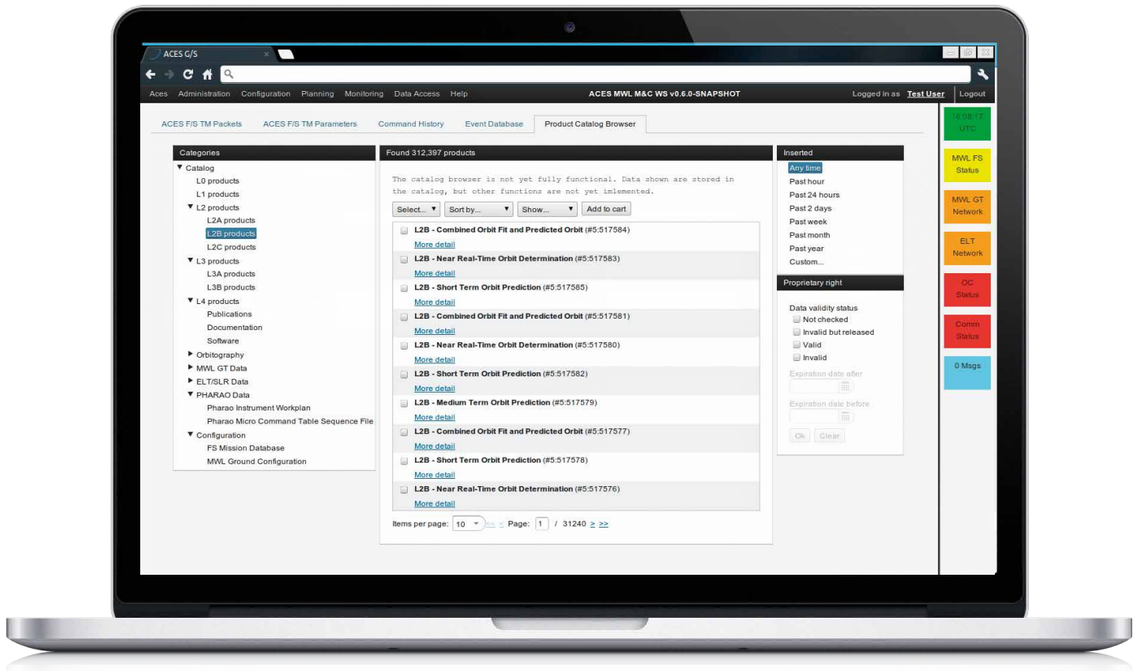
Space Applications Services is an independent Belgian space technology company, founded in 1987, whose aim is to develop innovative systems, solutions and products for the aerospace markets as well as related industries.

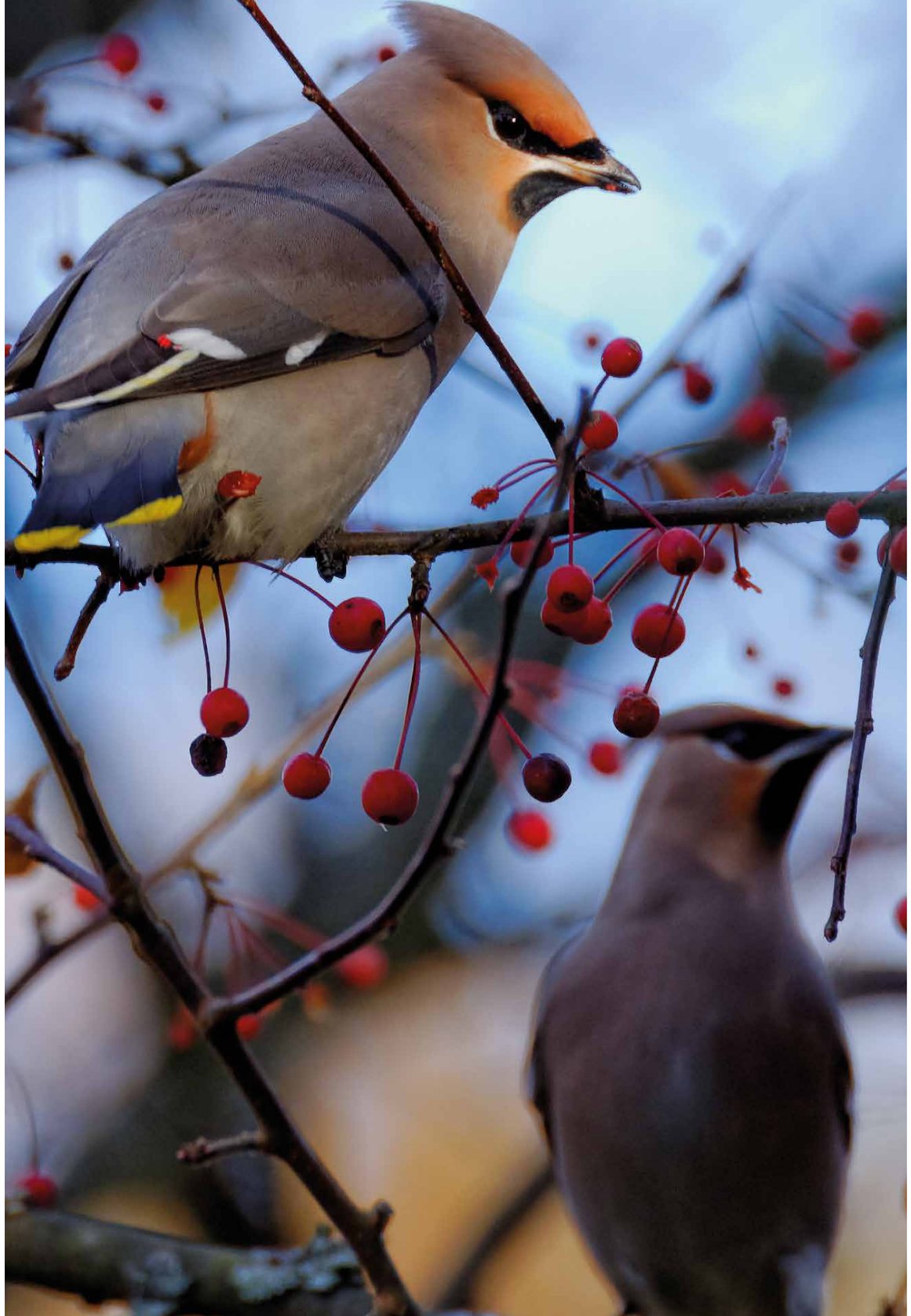
The company designs and develops spacecraft control centres. It also operates International Space Station (ISS) payloads from control centres (User Support and Operations Centres – USOCs) in Belgium and the Netherlands. The USOCs are responsible for the control and operation of several scientific payloads on-board the ISS. As part of the ground control facilities for the future ISS experiment ACES (Atomic Clock Ensemble in Space), a web-based user interface has been developed to provide access for operators located in the control centre, as well as for remote access for scientists and payload developers.

The GUI supports all required functions ranging from planning and real-time monitoring & control, to quicklook displays for science data & user administration and data dissemination.

A particularly demanding requirement to integrate the interface with legacy applications made the use of a server-side web development framework almost a necessity, thus making Vaadin a logical choice. The architecture of Vaadin allows for a seamless transition of user interface functionality between server and client depending on the usability and performance needs. This capability proved to be very powerful when designing this real-time monitoring application.

→ https://vaadin.com/showcase/space-applications-services





We Waxwings

Philipp Bärfuss

Magnolia 5 + Vaadin = Awesome UI

Magnolia is an open source Java CMS that delivers smartphone simplicity on an enterprise-scale. The mobile-inspired user interface (built with Vaadin) works through customizable, task-focused Apps, a notification stream called the Pulse, and a system of Favorites for quickly accessing the workspace. The combination of usability and flexible Java architecture has attracted governments and Fortune 500 enterprises in over 100 countries.

On June 20 this year, Magnolia released Magnolia 5, its biggest and most important release so far. Magnolia 5 helps organisations orchestrate their digital content across all channels. Vaadin played an important part in all of this: Magnolia 5's fresh, clean and beautiful user interface was built with Vaadin.

Ease of use

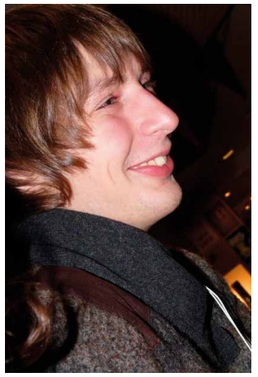
There are several reasons, both technical and organizational, that made Magnolia go for Vaadin. Most importantly, Vaadin is easy to understand and use for Java developers.

– It's easy for java developers to customize and expand Magnolia's user interface and build great, customized Magnolia 5 Apps. So Magnolia 5 isn't only a joy to use for editors and authors, but developers, too, says **Philipp Bärfuss**, Head of Development in Magnolia.

Developing, testing and debugging are a piece of cake with Vaadin. Another reason is the great collaboration Magnolia experienced with Vaadin, as well as Vaadin's useful documentation. The Book of Vaadin, for example, makes it really easy to get started. The main technical reason for choosing Vaadin for Magnolia 5 is its server-side execution. Executing UI events on the server is controversial, but the benefits of it weigh out the downsides with ease. In sum, the quality of Vaadin as a product as well as the many resources coming from the company helped Magnolia create an awesome UI efficiently.

Boris Kraft

– With Vaadin, we have delivered the most intuitive and beautiful CMS user interface available on the market: Magnolia CMS is easy to use and designed for touch to reflect the importance of the mobile revolution, sums up **Boris Kraft**, CTO and Co-founder in Magnolia.

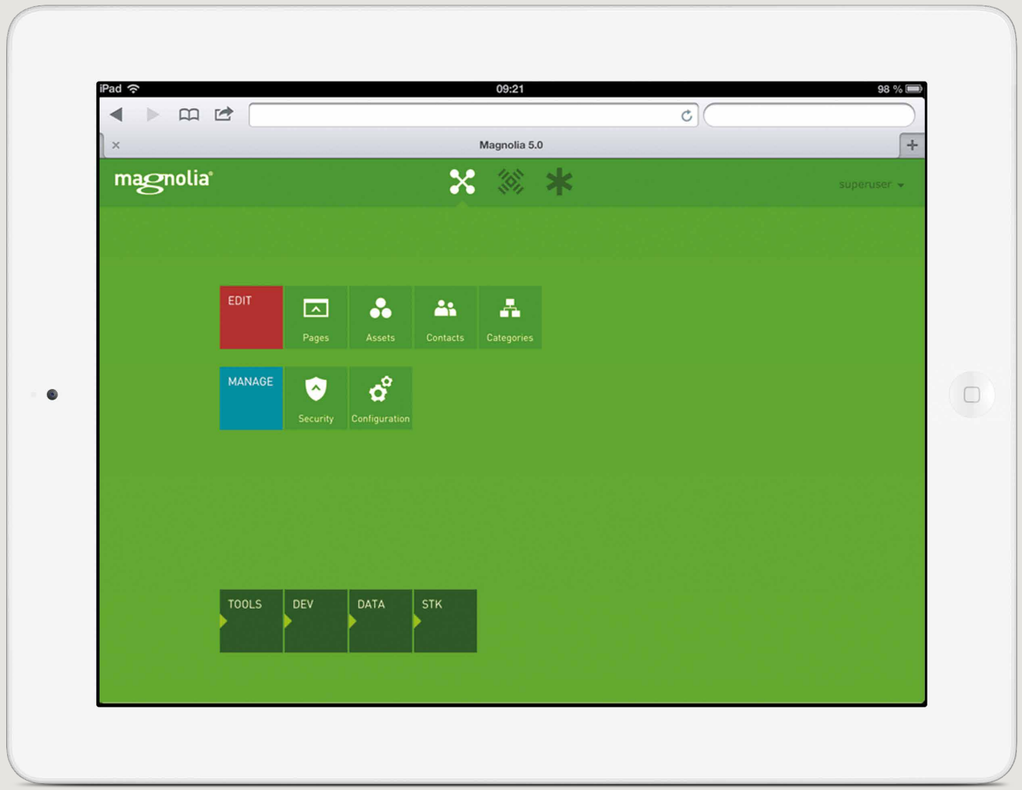


Aleksandr Pchelintcev

Great user experience

- The integration of Vaadin into Magnolia CMS has been done without fighting against neither of the frameworks. For instance, Vaadin's data-binding API has been easily adapted to the Java Content Repository - the main data storage of Magnolia CMS. Vaadin plays nicely with Magnolia's powerful dependency injection mechanism on the server-side. Vaadin and GWT encapsulated technical complexities like client-server communication and data-serialization and provided a broad set of reusable components that act as a solid backbone for our app framework. Convenient approaches to Vaadin extensions like add-ons and JavaScript adaptors excluded all the limitations in developing the great user experience of Magnolia 5, except for our imagination, says **Aleksandr Pchelintcev**, Vaadin Expert. →

→ **https://vaadin.com/showcase/magnolia-5**



Apps, Pulse, Favorites and Touch

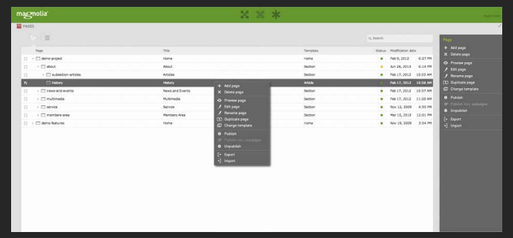
Let's have a closer look at what makes Magnolia 5 so unique. There are three key parts that structure the CMS: Apps, the Pulse and Favorites.

An App is a focused tool that allows users to work on one task or one data set at a time. Apps are purpose-built to perform a specific function, for example editing a page. Magnolia allows users to create their own Apps based on what is important to them and their business processes. The Pulse is an author's personal communication hub: it delivers a constant stream of inside and outside messages and alerts, filtered and sorted for the user. This makes it easy to collaborate with others and keep tabs on what's relevant at any given moment. Favorites let the user create a system of bookmarks and shortcuts, so getting to work on what matters happens faster.

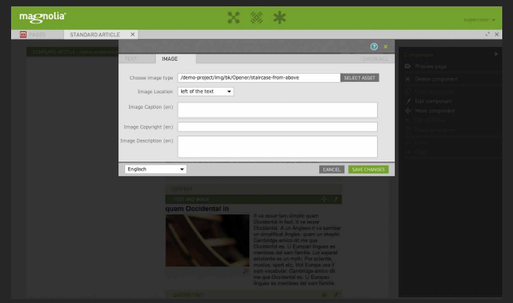
The quality that distinguishes Magnolia most from all other CMS on the market is its mobile first approach. Magnolia 5's interface is driven by touch, putting content management at the user's fingertips. It enables authors to edit on tablets - anywhere, faster and more intuitively.

Show how

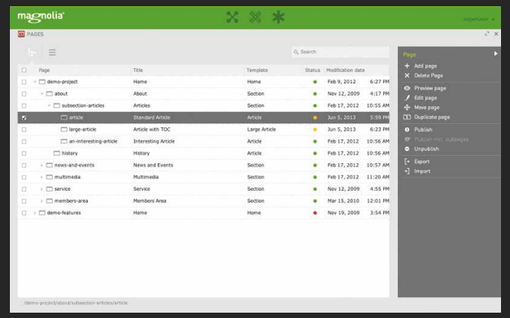
Vaadin elements are used by many Magnolia components directly. A number of Magnolia elements have also been implemented specifically for app development. A few examples:



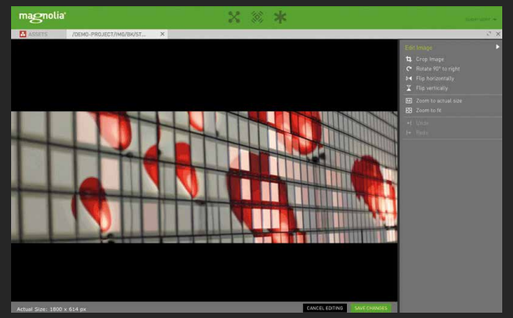
Context menus offer an intuitive way to access associated actions like delete, move and copy.



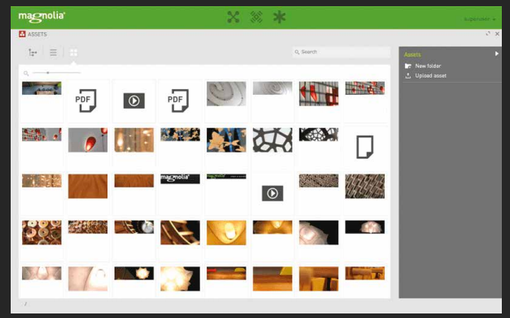
Dialogs are used to collect information about images inserted into an article.



All content in Magnolia 5 is organized with an intuitive tree-like view.



With Magnolia 5 you can also edit the uploaded images. Crop and rotate them to fit the article layout.



Choose from different display modes. In thumbnail view mode you can easily see them at one glance.

Moleculenix - Ariadne
US
Life Sciences

The Ariadne application is an inventory and safety management tool for chemical laboratories. Adriane's users are researchers in the fields of chemistry and life sciences. At the moment, the development team at Moleculenix are adding capabilities to enable collaboration between teams of researchers, as well as a fully-featured electronic lab notebook (ELN).

Research groups and scientists in industrial or academic environments face the similar challenges during the R&D processes.

– A typical academic or industrial research group has a stockroom with 1,000 - 10,000+ commercial chemicals. The chemicals are hazardous materials, and a major investment at ~$100 per container. Safety rules for storage segregation and regulatory reporting are not always followed. Money is wasted on re-ordering chemicals that were misplaced. Time is wasted on searching for chemicals. Our application aims to solve these problems, saving our customers money and making their workspaces safer, says Dr. Valentin O. Rodionov, Founder at Moleculenix Inc.

The team at Moleculenix has extensively employed GWT (Google Web Toolkit) in their application. GWT is a development toolkit for building and optimizing complex browser-based applications.

– One of the coolest things about Ariadne is our GWT widget for drawing and displaying chemical structures. It works in all major browsers (including IE8), and is touch-savvy when running on iOS and Android. The decision to develop it in GWT allowed us to develop and deploy the component quickly, and to include more chemist-friendly features than any of the competing products. Of course, Vaadin made it extremely easy to integrate GWT/Javascript part with our Java/PostgreSQL back-end.

https://vaadin.com/showcase/moleculenix

Vaadin and GWT – Engagement becomes marriage

Google Web Toolkit (GWT) is one of the core components in the freshly released Vaadin 7 framework, and Vaadin now offers support for GWT projects. What does this mean for GWT and Vaadin users?

Quite a few years have passed since Google started developing a technology with the core innovation of converting Java to JavaScript. GWT was born in 2006, and for Vaadin its compiler seemed like a perfect technology for building extensions. But GWT is a much wider product than just a compiler. Now in 2012, the whole GWT has been included as a built-in component in Vaadin 7.

- You could say that earlier we were engaged with GWT and now we have taken the next step and gotten married, says Joonas Lehtinen, CEO of Vaadin.

Get the support for GWT

Vaadin is on the steering committee for GWT with Google, Sencha, Red Hat, and others. “Together we’re working to ensure that GWT continues to develop rapidly and that we are able to serve its worldwide developer community well – part of this involves Vaadin offering commercial support to GWT users and projects.”

- We are now able to fix issues and add features directly to GWT, because we build and distribute releases ourselves. With our support subscription, you can let us know about issues slowing down your project and we will commit to fixing them in the next release. In addition, we offer a variety of support and professional services to help your GWT-based project.

Check these out: → vaadin.com/gwt → vaadin.com/services

Road to GWT 3

Back in 2006, when Google released the first version of GWT, its mission was clear and powerful - to enable building scalable client-side web apps in Java in order to make the development and maintenance of large web apps efficient. The mission still holds after 7 years of powering some of the most business critical applications in the world - including AdWords that generates most of Google's revenues.

While GWT has been open source from the very beginning, Google took openness one step further in 2012 by giving the control over the project to a steering committee that includes Vaadin, Sencha, RedHat and a few others, in addition to Google itself. The new home of GWT - gwtproject.org - is now accepting patches.

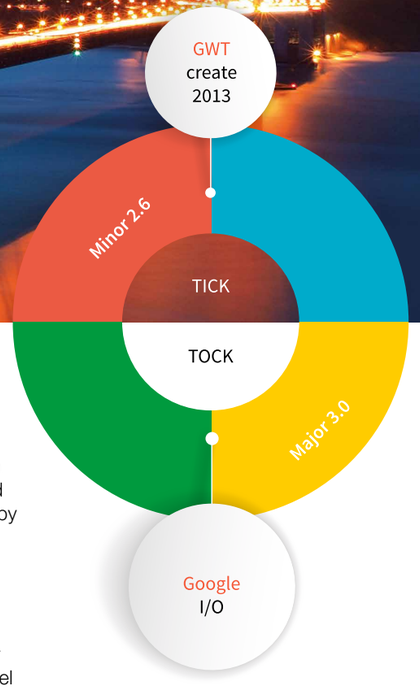
GWT.create Conference

For years GWT was missing a GWT focused conference that would engage the community in live discussion. To help catalyze this new community driven GWT, Vaadin is hosting the largest ever GWT conference in December - in San Francisco as well as in Frankfurt. This conference that spans over two continents has over 60 presentations by almost 30 speakers. The topics vary from deep dives into GWT internals, internals frameworks built on top of GWT and future web standards. Check out the agenda online at gwtcreate.com and reserve your seat today.

Roadmap

After a period of very few releases, the steering committee decided on a tick-tock release model. There would be a major release by summer and a minor release by the end of the year. Thus GWT 2.6 can be expected by the end of 2013 and GWT 3.0 in the second quarter of 2014.

There are many interesting features in the pipeline, but the top need identified last year in the Future of GWT survey was compilation speed. Luckily, there is major work going on with this - both for GWT 2.6 and GWT 3.0. Some items that are being worked on include modularization (3.0), deleting deprecated parts (3.0), better SuperDevMode (2.6), better JavaScript bridging (3.0), better mobile support, a new component model with support for web components (2.6) and many, many other things.



GWT.create <US/EU>

San Francisco
California
December 12-13th 2013

Frankfurt am Main
Germany
December 127-18th 2013

Learn where GWT and the related frameworks like Vaadin, GXT and Errai are going, what is hot at the moment and what are the best practices for building something great.

Meet the key people in the GWT community, take a deep dive into the technology and compare your experiences with others who are living and breathing GWT.

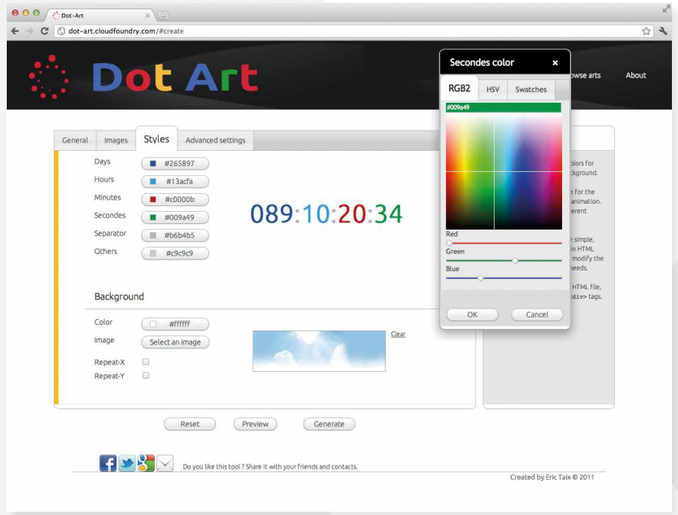
Get inspired by the latest developments in HTML5 – both on mobile and desktop. Start seeing the future of how to build the next generation user experience on web platform.

ViLLE
Finland
Public Education

ViLLE is a collaborative education platform developed at the University of Turku. With ViLLE, teachers can create virtual courses and electronic exams with various types of automatically assessed exercises with immediate feedback. All created resources can be shared, commented and evaluated by other teachers. ViLLE automatically gathers a huge amount of data about students' learning behavior and results while they are using the system. This creates new research possibilities, as a huge amount of quantitative and qualitative data becomes available.

ViLLE is currently utilized by more than 400 teachers and over 7 000 students around the world. The effectiveness of ViLLE has been evaluated in various scientific studies, and based on the results, ViLLE enhances students' learning performance and motivation significantly. For example, ViLLE was used successfully for the first electronic matriculation exam experiment in Finland in January 2013. More information can be found at http://ville.cs.utu.fi.

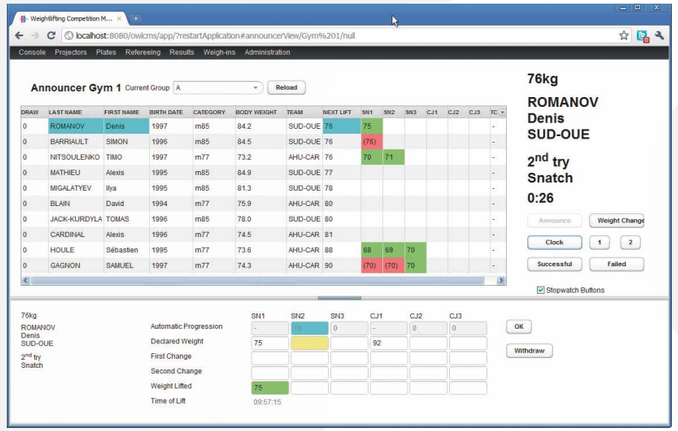
https://vaadin.com/showcase/ville



Dot-Art / Eric Taix (France)
ICT

Dot-Art is a free service for creating an HTML5 countdown. It allows you to set the end date of the countdown, define your own colors, styles and background, add your own images before and after the countdown and much more. Neither HTML5 nor JavaScript knowledge is required to use it.

https://vaadin.com/showcase/dot-art



OlympicWeightliftingCMS / Québec Weightlifting Federation (Canada)
Sports

OlympicWeightliftingCMS is a multi-user application for managing an Olympic Weightlifting competition according to International Weightlifting Federation rules. It includes automatic calculation of lifting order, display of results and attempt information, and production of competition documents, timing and refereeing.

https://vaadin.com/showcase/owlcms

From different working patterns to new insights

The Nordic insurance company If Insurance wanted to take a leap into a customer-centered approach in its IT solution, and at the same time develop it in a more agile way. If worked in close cooperation with Vaadin and its experts to create a modular system to suit the work environment of insurance salespeople. The user-friendly solution naturally models the dialogue between the insurance sales agent and the customer.

The main goals for the new system were ease of use, customer orientation, and intuitiveness. The technical solution was created to complement real sales situations in a way that considers customers' needs first rather than just the features of products.

”This project brought up a great deal of new things and ways of doing”

– Vaadin's main role in the project was to offer a technical perspective to the process. The project began with a technical evaluation. The new IT solution was developed based on actual business processes that were studied beforehand. Before starting actual development, a pilot was conducted on one product line, explains If's Head of Strategy Unit P&T Private Minna Lehtonen.

Thinking, learning, doing

The project proceeded with the principles of agile development. This meant that the focus could be changed according to the client's needs throughout the process. At the same time, it allowed users to became familiar with the new system as it was built.

– Building a project in small increments saves both time and effort. The goals are met more easily when we are able to discuss the solution with the customer during the development process, says Vaadin Expert and Project Manager Marcus Hellberg. He continues:

Minna Lehtonen

”We need spontaneity, innovativeness and true passion to solve problems”

– The challenge in this project has been combining new and old technologies behind a coherent and easy-to-use interface. The focus has been on creating an intuitive system built up from reusable modules.

– The new system allows sales personnel to work more efficiently with customers. From the IT-department's point of view, the system has meant development of new modules, which can later be used in other applications as well, Lehtonen sums up.

Emphasizing reliability and commitment

– The cooperation with Vaadin has run smoothly. The team consists of enthusiastic and innovative people who have a true passion for finding the right solutions. We managed to unite both our team and Vaadin's in carrying out the process to achieve a common goal, says Lehtonen.

– Cooperation – both with the client and within our own team – is the keyword in constructing a successful solution. There has to be a clear understanding inside the team of the fact that we are all building the same system. And this understanding should, of course, relate closely to the client's perception and experience, Hellberg says.

– For me, the best part of the project is managing the big picture, because it allows you to bring together the right people in various phases of the work. Great insights will come up all the time. Vaadin is like a toolbox, you also need people that really know how to use the tools in order to build something great.

Team: 1. Marcus Hellberg 2. Nico Hållfast 3. Risto Yrjänä 4. Mikael Grankvist 5. Anna Koskinen 6. Mikko Nurmi 7. Johannes Tuikkala

Migros Retail Store Planner
ICT

The retail store planning application is used at the Migros group for the complete planning process of new retail stores and the remodeling of existing stores. The solution is a centralized multi-user platform which is attached to several company internal information systems to retrieve store data, assortment data, sales data and strategic targets as well as data from the location competition analysis. The user can access the different steps of the planning process using a tab layout, which makes it easy to switch back and forth between the different planning aspects. The UI has been optimized to display all data in a configurable detail level to allow quick comparison between the new store, existing stores and strategic targets, while helping the user to keep track of the overall plan. Today, the solution combines a rich UI with standardized and centralized processes and helps the Migros group with quickly implementing new strategies in a very competitive market environment.

The requirements regarding UI flexibility and responsiveness of the application were very high, as the users had been previously working with Microsoft Excel. UI development in plain Java with Vaadin has proven to be much quicker than implementing a standard HTML/CSS/Javascript frontend. While most of the existing Vaadin widgets were used out of the box, only a small number of extensions of standard Vaadin UI components had to be implemented to optimize the usability of the solution.

https://vaadin.com/showcase/migros-retail-store-planner

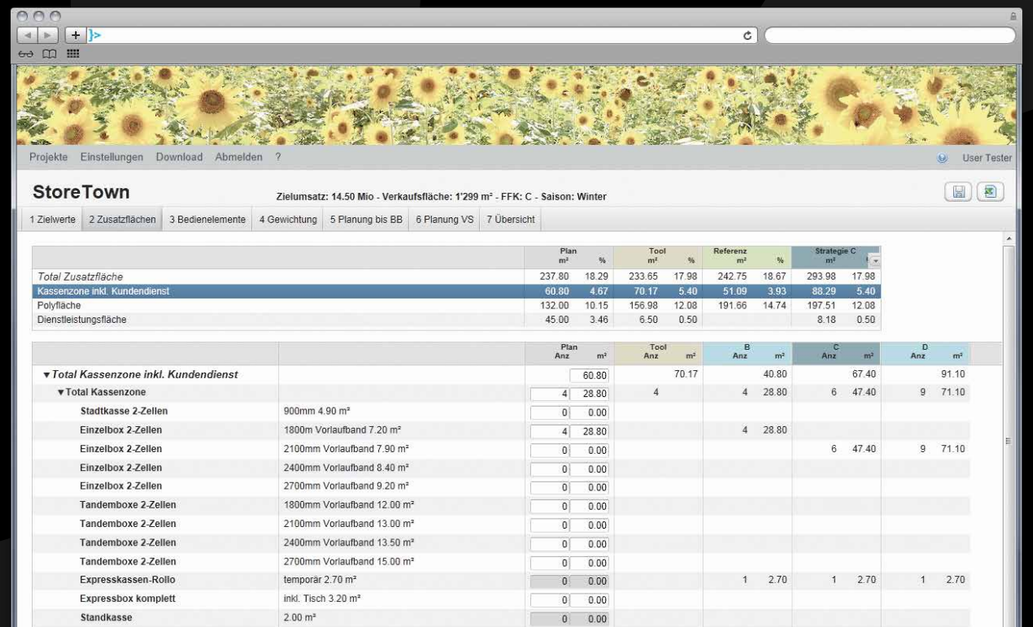
"By using the Vaadin Framework, mp technology was able to create a web application tool for Migros, which is at least as powerful and user-friendly as a traditional desktop application."

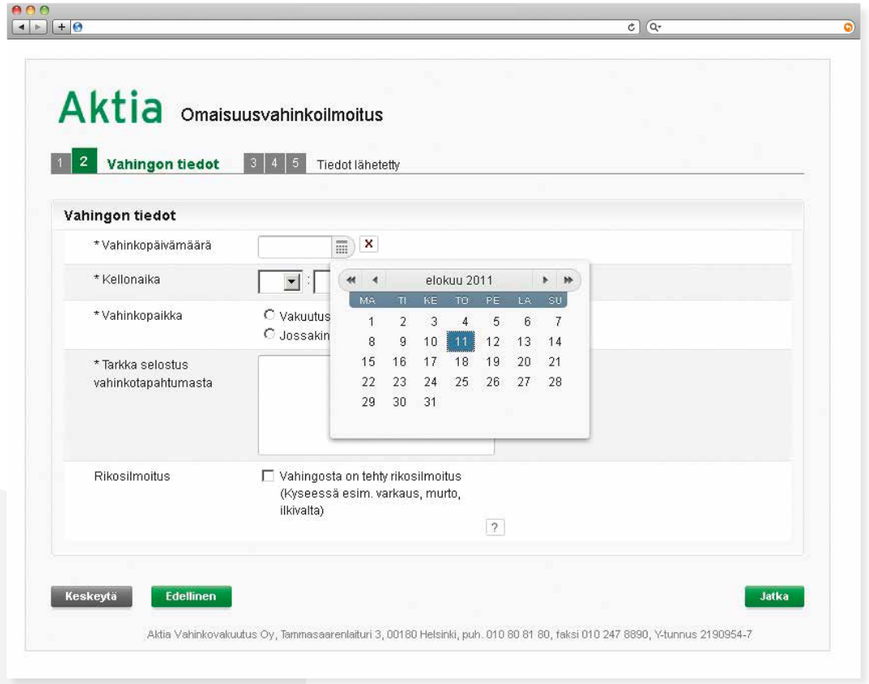
- Andreas Bettler, Head Store Planning, Migros -

mp technology consulting

mp technology specializes in the development of B2B and B2C business software for innovative, custom made Internet, backend and mobile solutions, as well as consulting services in software architecture, IT security, performance and mobile services.

vaadin }> Solution Partner





Aktia Forms Generator
Aktia (Finland)
Financial and insurance

The Finnish financial group Aktia's new claims and other forms have been completely rewritten with Vaadin by Endero. The servlets use standard JavaEE technologies from both open-source and commercial products underneath the Vaadin user interface.

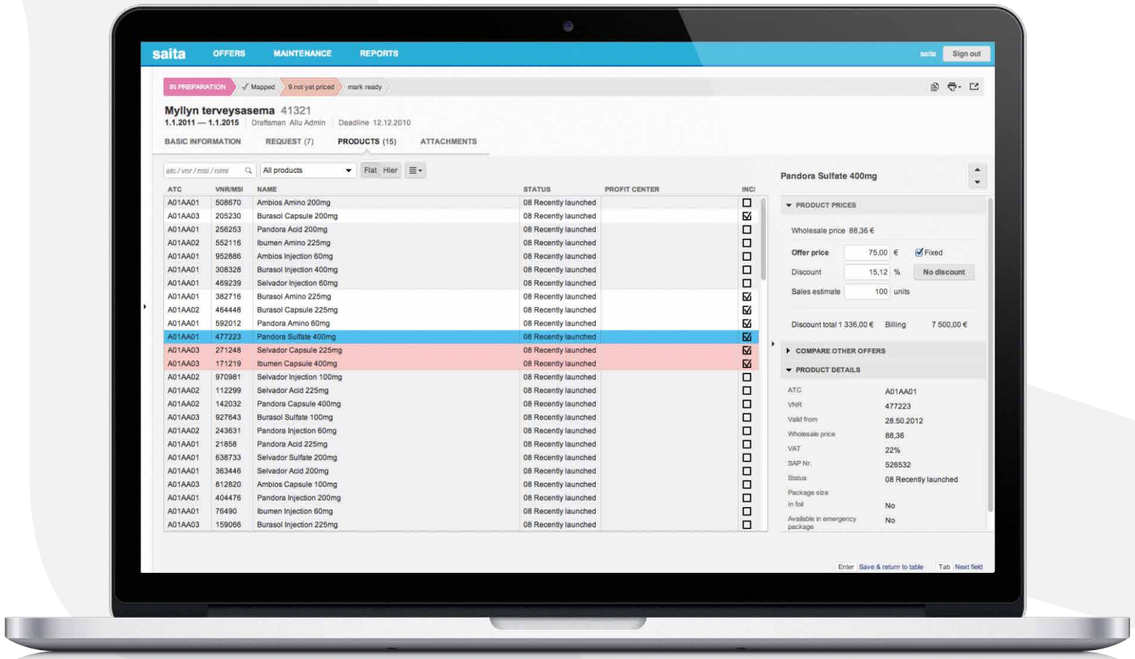
According to Endero's Timo Hartikainen, the development has been highly effective due to the tight integration of the server-side UI logic to the business logic. The application itself relies heavily on annotations to create a highly dynamic forms application. Vaadin's security features have allowed the developers to concentrate on the essential business logic. On top of this, testing has also been cut down due to the wide array of web browsers supported by Vaadin.

Aktia's IT Director Juha Volotinen states that their goal with Vaadin was to create a flexible platform on which they can develop forms and calculators that support their customers. Vaadin also supported their goal of excellent usability and good looks.

Aktia offers a broad range of solutions in banking, asset management, insurance and real estate agencies. Aktia operates mainly in coastal areas, in the Helsinki region, and in inland growth areas. Aktia's roots date back to 1825, when Finland's first, still existing deposit bank saw the light of day.

https://vaadin.com/showcase/aktia-forms-generator

Autumn droplets



Saita
Health Care, Life Sciences

SAITA is Orion's business solutions for pharmaceutical personnel. SAITA application enables fast and safe medicine offering and ordering.

Hospitals require large amounts of medicine. Instead of paying the full retail price, the hospital personnel asks Orion for an offer on the wares. SAITA inputs the offer request into the system, where Orion's representative reviews the offer. Orion assigns discounted prices to the offer request, and then the offer is printed out as a PDF- file for the customer. The customer, e.g. medical personnel, then either accepts the offer, accepts it partially or rejects it. When an offer is fully or partially accepted, SAITA contacts the wholesale store selling the medicine trough file tranfer protocol (FTP), informing them with which price they are allowed to sell certain medicines to that customer.

"Orion SAITA was the first project developed on top of Vaadin 7. With the most cutting edge features from Vaadin and the goal to create the best possible user experience within the application, we achieved a nice looking application that is a pleasure to use." says Jens Jansson, team leader, Vaadin.

https://vaadin.com/showcase/saita

"Vaadin as a company and framework has been a successful long-term choice for Orion. We are very pleased with the Vaadin team and the overall outcome."

- Jukka Aho, Orion -

Attendium - guest lists made digital
Attendium (Sweden)
Events and Conferences

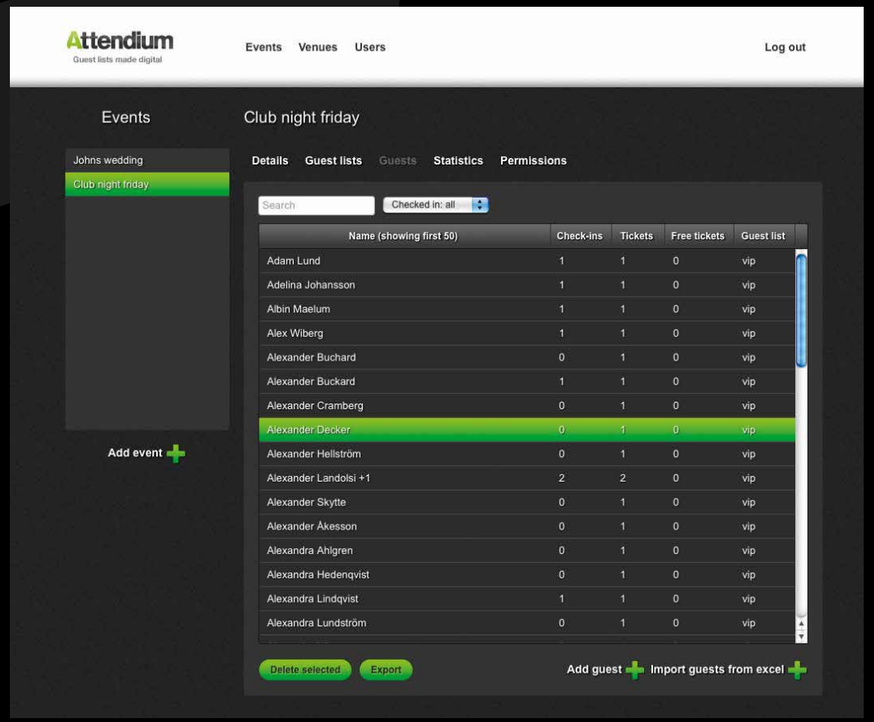
Attendium is a service designed to automate guest list management at venues and events. It allows you to collect names from many sources – e.g. Facebook, e-mail inboxes and website forms – into one guest list for your event. You can even add new names to your guest list via SMS at any time during the event.

With Apple's Ipad, Iphone or Ipod Touch, Attendium allows you to search for and check in your guests much faster than with your old paper lists. Instead of just focusing on how to get attendees to an event, with Attendium you can get the best tools for the treatment of your guests once they have signed up. As a result, Attendium completely revolutionizes the way in which event managers and promoters manage their guest lists.

Attendium uses Vaadin for its web-based control panel to manage users, events and guest lists. "Vaadin is solid, well thought-out and trustworthy, and the end result is very good." –Piotr Blasiak, CEO

Attendium is a startup focusing on digital guest list management, backed by KTH Innovation at the royal institute of technology in Stockholm, Sweden.

https://vaadin.com/showcase/attendium



OSC Enquiry System (TNT)
Logistics

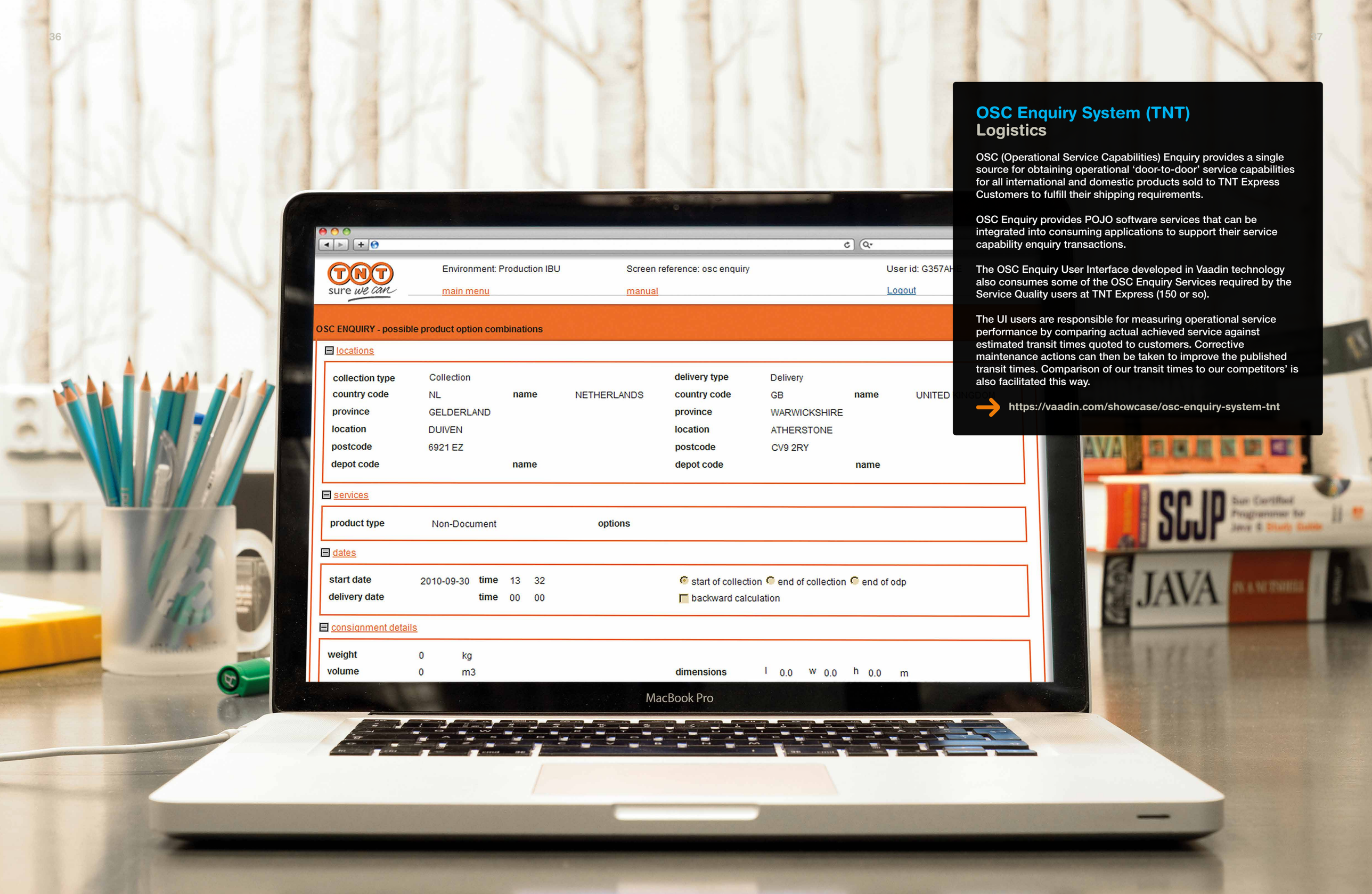
OSC (Operational Service Capabilities) Enquiry provides a single source for obtaining operational ‘door-to-door’ service capabilities for all international and domestic products sold to TNT Express Customers to fulfill their shipping requirements.

OSC Enquiry provides POJO software services that can be integrated into consuming applications to support their service capability enquiry transactions.

The OSC Enquiry User Interface developed in Vaadin technology also consumes some of the OSC Enquiry Services required by the Service Quality users at TNT Express (150 or so).

The UI users are responsible for measuring operational service performance by comparing actual achieved service against estimated transit times quoted to customers. Corrective maintenance actions can then be taken to improve the published transit times. Comparison of our transit times to our competitors’ is also facilitated this way.

https://vaadin.com/showcase/osc-enquiry-system-tnt



Tallink Silja Line
Maritime

Company description

Tallink is an Estonian shipping company that is currently a leading provider of high-quality mini-cruise and passenger transport services in the Baltic Sea region as well as a leading provider of ro-ro cargo services on selected routes.

The company's vision is to be the market pioneer in Europe by offering excellence in leisure and business travel and sea transportation services. AS Tallink Grupp has been numerously awarded by many organizations for achievements in the fields of corporate social responsibility, business activities and an innovative approach. The company places high value on the good work of the whole team, which has resulted in positive feedback from the public and organizations.

Application description

Our project is a payment system which allows Call Center workers to pay for a reservation if the client, for some reason, cannot pay for it him or herself. In addition, this system allows giving additional information to the client, for example detailed information about the reservation (hotel service, additional room service, etc.)

Vaadin

We have a lot of experience in the development of applications using HTML, JavaScript and CSS. This experience allows us to understand that Vaadin could solve most of our "time killer" problems, which are often caused by browser differences and weakly typed JavaScript.

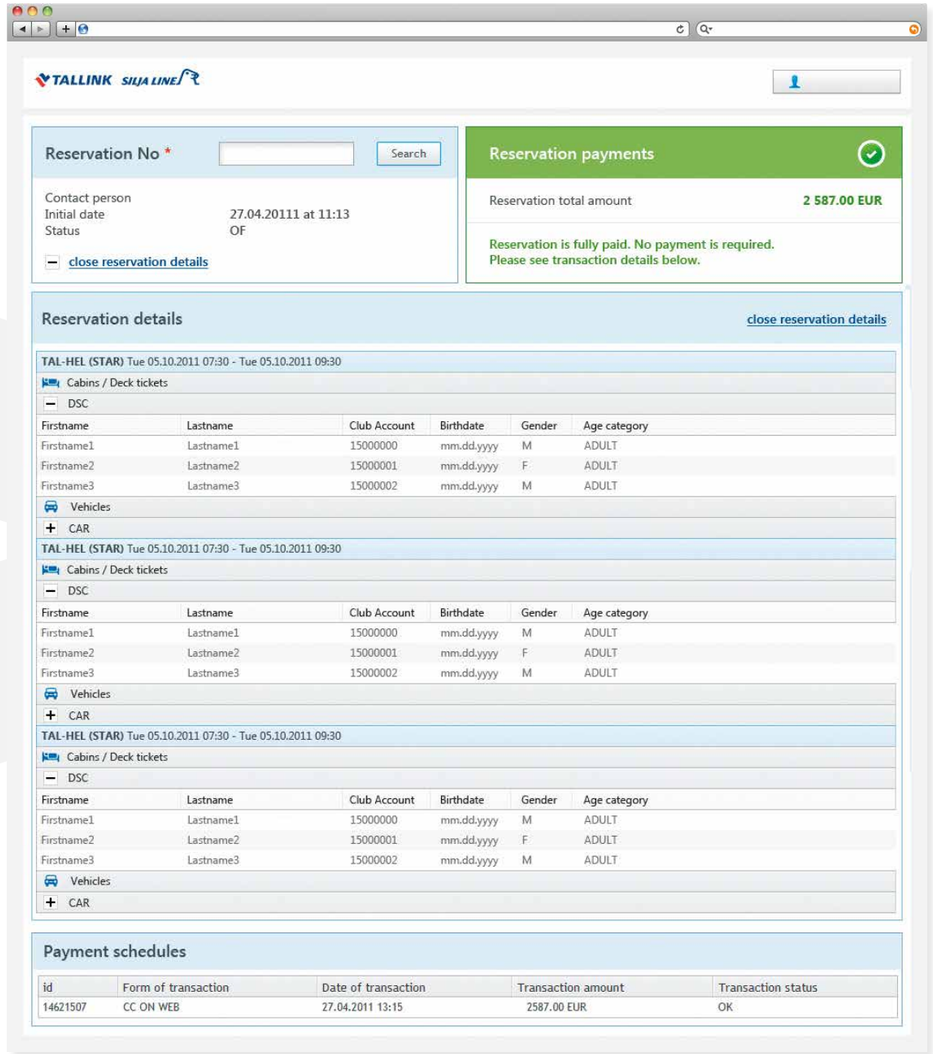
Other "candidates" seem to avoid these problems but still cannot write code using only one programming language.

Most of our service engine backend applications are written in Java and integration with the frontend is done using Vaadin Framework. That was one of the easiest parts.

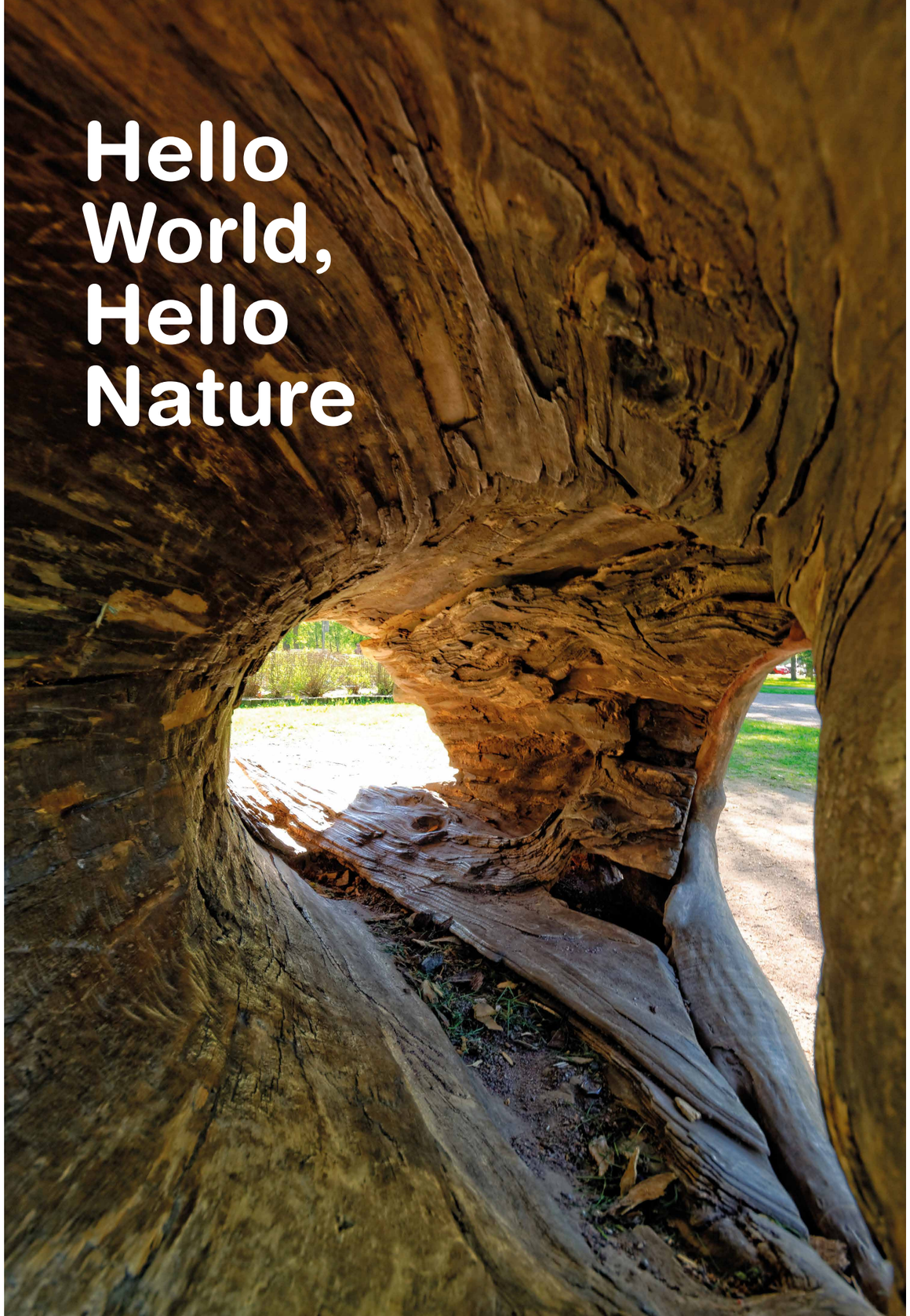
The biggest plus of Vaadin is that it allows the developer to write a simple, readable code without thinking about cross-browser.

Ability to write code without "workaround" for different platforms is a very good thing, something all developers dream of.

https://vaadin.com/showcase/tallink-silja-line



Hello World, Hello Nature



Vaadin Expert Johannes Tuikkala has been part of the Vaadin crew for five years now. He digs both coding and nature, technology and visuality. This is the reason why this coder spends his spare time taking photographs.

– A couple of years ago I bought a new system camera, which opened up a whole bunch of new possibilities to take this hobby further. I mainly photograph nature, everything from bugs to deer and starry skies to handsome landscapes.

– My favorite subjects are plants and bugs. They both offer a visual and technical challenge. Can I get close enough and make the image still sharp? Can I capture the moment in its most visually appealing form?

Nature moments

On weekdays Johannes photographs nearby, but on weekends he often travels to countryside.

– This hobby offers a way to spend time in nature and also space for my own thoughts. It combines both relaxation and excitement – you can never be sure whether you get close enough to animals without scaring them away.

For him photography offers an important way to express his artistic side.

– As a child I liked to wander in nature. Now I have found this passion again and also gotten a chance to study the surrounding world through the lens. I want to bring out nature's versatility and beauty, show things as they are and make those moments last.

Being present

Johannes says he follows hundreds of other photographers online. It's inspiring to see what others do and how they do it.

– In photographing nature it's not only about you finding subjects, but also subjects finding you. You may plan to take photos of a certain subject, but then something else comes along and it translates itself into the most wonderful images. It's the element of unexpected that's intriguing.

So Johannes, what are the best photos made of?

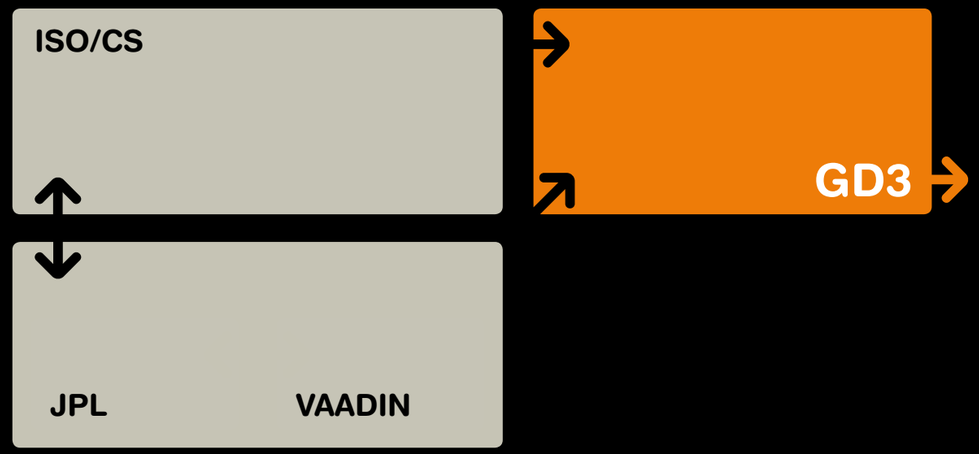
–They are those that sweep the viewer into the photographs atmosphere, make him or her feel like they are on that specific location on that very moment. That is what I aim for in my photographs. }>

Visit https://plus.google.com/113282173704034157173/posts

ISO/CS, JPL Informatique & Vaadin:

Creating a global directory

What happens when you put together the International Organization for Standardization Central Secretariat (ISO/CS), JPL Informatique and Vaadin? Obviously, a very successful multi-supplier project. The project aimed to create a global directory, a backbone for all the tools needed in the standardization process.



Read more: https://vaadin.com/showcase/iso-cs-jpl-informatique-and-vaadin-global-directory

The application enables international, regional and national standardization bodies' administrators to manage standard development parties. One of the key outputs of the application is to support role assignment to experts and organizations participating in the standardization process.

– Throughout the execution of the project, our main goal was to deliver a more versatile and scalable application. We aimed to improve the user experience and make the whole software faster, simpler and better, explains Project Manager Stéphane Châtelet from ISO/CS.

– In the process we also created internal guidelines on how to build applications in a consistent way. Together with ISO/CS and Vaadin we achieved the actual wow effect in this project, says CTO Eric Leray from JPL Informatique.

All for one and one for all

In this project everyone had their own special roles.

– ISO/CS, of course, had the best knowledge of their business processes, we in JPL Informatique were their local partner in charge of the technical execution and Vaadin had the design expertise and knowledge of its implementation. Through partnership with Vaadin we also got access to the right people, when we had questions, Eric explains.

– The first phase of the project started two years ago with a technology evaluation. At that time the options were Struts2, ICEfaces (JSF2), GWT, GXT and Vaadin. Following the technical stack choice, we began to search for the right partners to help us get up to speed with the Vaadin framework, and accompany us during the project execution, says Stéphane. He continues:

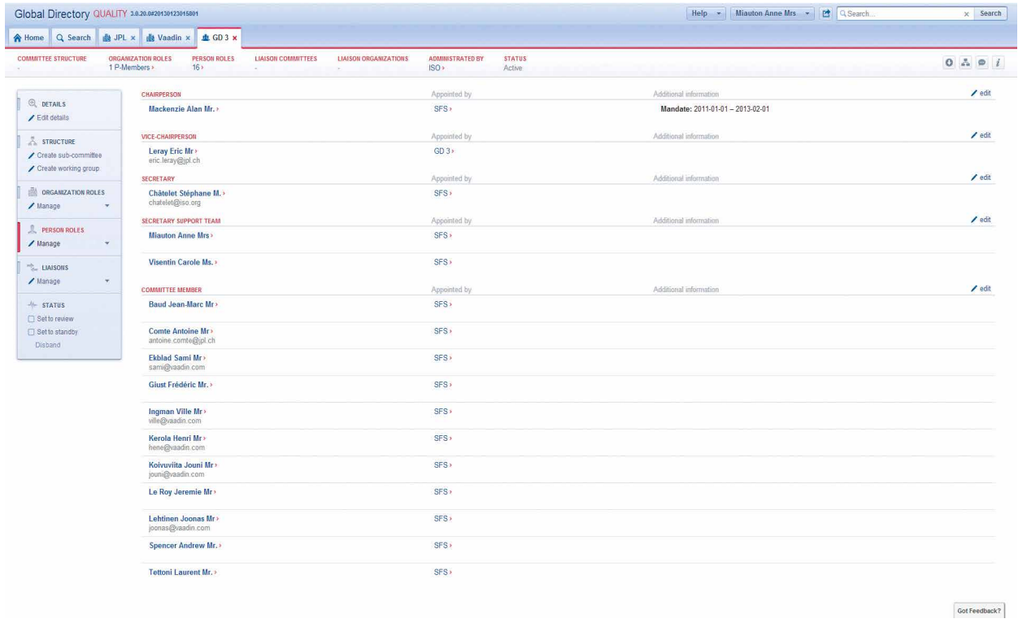
– After an intense year working on this project, the team delivered the application in due time and, with a few months of production behind us, we can say: "all lights are green". It was and is a necessity to be able to trust our partners and their expertise. We plan to continue this cooperation in the future.

A road to success: partnering

Vaadin and JPL Informatique are solution partners. The Vaadin Solution Partnership program helps companies stand out from other open-source developers. Vaadin backs up the development by offering a comprehensive set of tools and services. According to Ville Ingman, VP of German Operations in Vaadin, partnering is about building business on top of the partnering model for both sides.

–Because of our solution partner model, both we and our solution partner can offer expertise on a wider scale. It is about combining our strengths and being able to offer more than we could as individual companies.

vaadin Solution Partner



We dim the lights while you find your seat:

Proving the scalability of Vaadin

Now we would like to ask you to use your imagination. 238 countries, 6,624 theaters, 69,347 rooms, 20.7 million seats, 3 movies per night, up to 1.9 billion tickets per month, 2 tickets per sale transaction, 10% fill rate. We imagined this: a Vaadin-based web application that could sell all the world's movie tickets.

If you ask developers, they want to make good applications that become popular. We all do. For this reason, one of the most typical questions we are asked is "Can Vaadin applications scale to serve a large number of users and clients?"

– We already knew that Vaadin scaled well, but we wanted to test and prove it through an interesting example. We set our goal to be able to handle all the movie ticket sales in the world using a single Vaadin application, says Vaadin Expert Teemu Pöntelin.

Could a Vaadin application handle this number of business transactions? To put this into perspective, the actual real-world movie ticket sales in the US and Canada in 2009 were 1.4 billion admissions (Motion Picture Association of America), which would roughly translate into 2,600 tickets sold per minute.

– If everyone bought two tickets, this would translate into some 1,300 purchase scenarios per minute. In our test we doubled, tripled and quadrupled this amount.

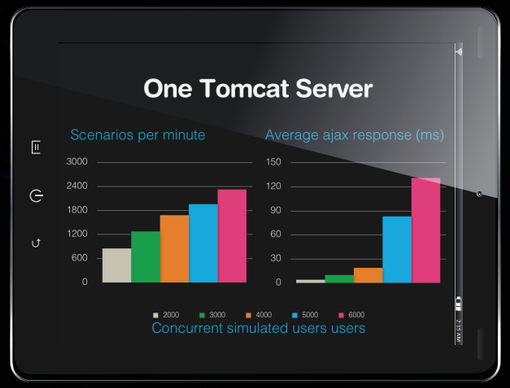
Mission possible

For the test set-up, we chose the typical web application technology stack. The test connected Vaadin Framework with a MySQL database and Tomcat servers. For measuring we used one of the best open-source load-testing tools, Apache JMeter, which simulated thousands of simultaneous ticket buyers. These simulated users constantly bombarded the application.

– What we found out is that the typical bottleneck for application scalability is database access. This is why in our application, we tried to minimize the database usage by storing as much data as we could in an in-memory cache. This way we could concentrate on testing the scalability of Vaadin and the web layer, Pöntelin says.

The test showed the scalability of Vaadin to be excellent.

– A single Amazon EC2 large server could handle 2,748 customers buying one or more tickets every minute. This translates to over 20,000 Ajax requests per minute by some 11,000 users concurrently logged into the application. Adding a second server did almost double these numbers. Thus, the goal of selling all the movie tickets in the world was reached by using just two servers. In reality, of course, ticket sales do not happen evenly. Instead there are usage spikes. Nevertheless, even when we overloaded the servers, the application was responsive. This is good news for application usability. }>



Important data: We measured the number of sales transactions per second as well as the latency experienced by the user.

The End

Produced & Released by Vaadin

Read more: **https://vaadin.com/blog/-/blogs/vaadin-scalability-study-quicktickets**

SentiOne
Internet Software

SentiOne offers services for Social Media Monitoring and Analysis. It is a powerful tool to track, control and protect company brand image in the ever-growing social media. For example, 24/7 SentiOne monitors opinions and comments that appear in social media, microblogs, forums, blogs, and news sites. The monitored statements originate from social media such as Facebook, Google+, and also microblogs such as Twitter and BLIP, in addition to diverse internet forums, blogs, information services and product comparison tools. Currently SentiOne monitors over 5 500 000 sites.

The whole project is Java based and managed by Maven. The Vaadin application is embedded into Grails Framework and is written in Groovy language. We have chosen Vaadin because we wanted to create a powerful user interface like in Ext-JS or Adobe Flash, but it had to be easy to create, maintain and modify.

https://vaadin.com/showcase/sentione

"Choosing Vaadin made our dev team more agile as even backend developers are familiar with the technology and can do tasks that would normally be strictly reserved to frontend developers. In our project, Vaadin is embedded into the Grails application which is part of the bigger system managed by Maven. With such combination we are able to quickly create, edit and maintain sophisticated user interface."

- Michał Brzezicki, Head of Technology -

PUMA Range Toolbox
Global Retailing

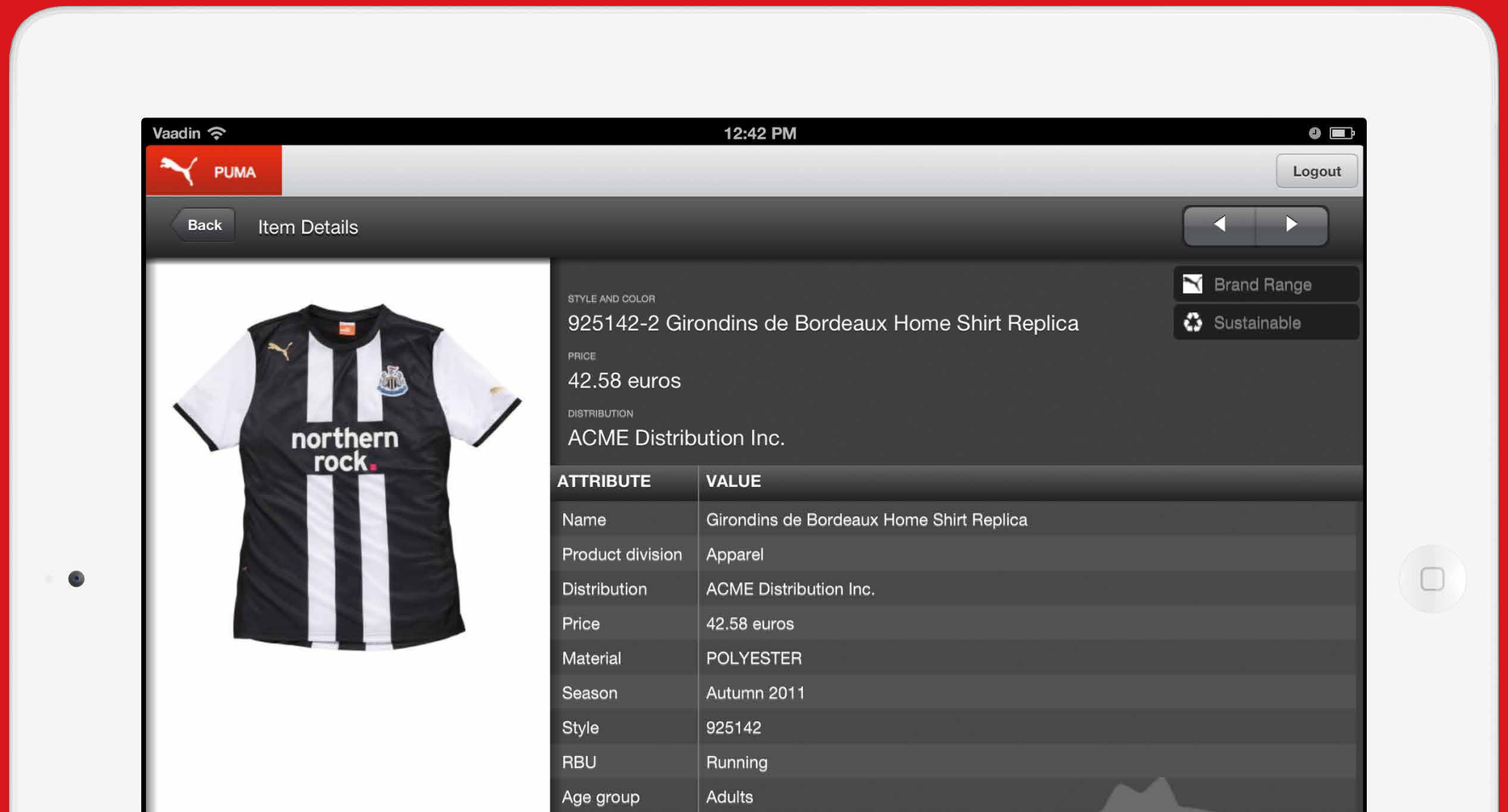
PUMA Range Toolbox supports the review of the upcoming collection by allowing merchandisers to vote for products and leave feedback on individual design or the overall collection. The new web based planning application improves work efficiency and flexibility throughout the whole process from article selection to analysis of the selected article range. As the application is fully integrated with the surrounding product lifecycle applications, it also saves a lot of work by being automatically updated with the latest article data and also automatically sending the selected range back to BI, PLM and sourcing systems.

The product is technologically advanced and includes a large stack of technologies. Especially the use of the Vaadin Touchkit allowed to create an application with the feel of a native iPad solution but still allowing to leverage all the advantages of a regular web application: zero installation/deployment issues, centralized data, easier updates, no local administration, access from anywhere within PUMA, etc.

https://vaadin.com/showcase/puma-range-toolbox

"By using the Vaadin TouchKit we were able to focus on functionality rather than on all the tricky details of a regular web application, like CSS, JavaScipt, HTML, etc. With the help of Vaadin we built a functional and intuitive GUI."

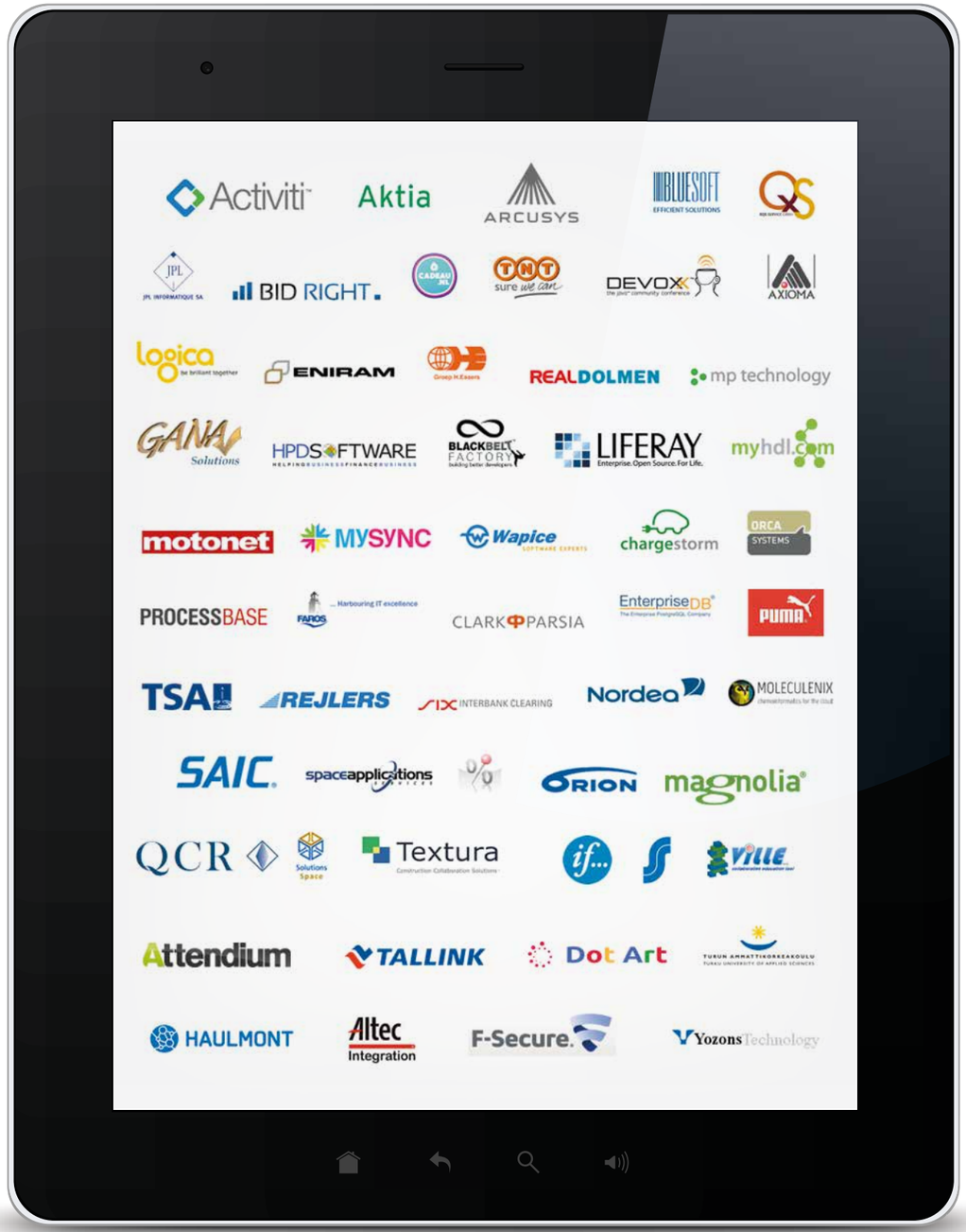
- Christian Burger, PUMA SE -



Who is using Vaadin?

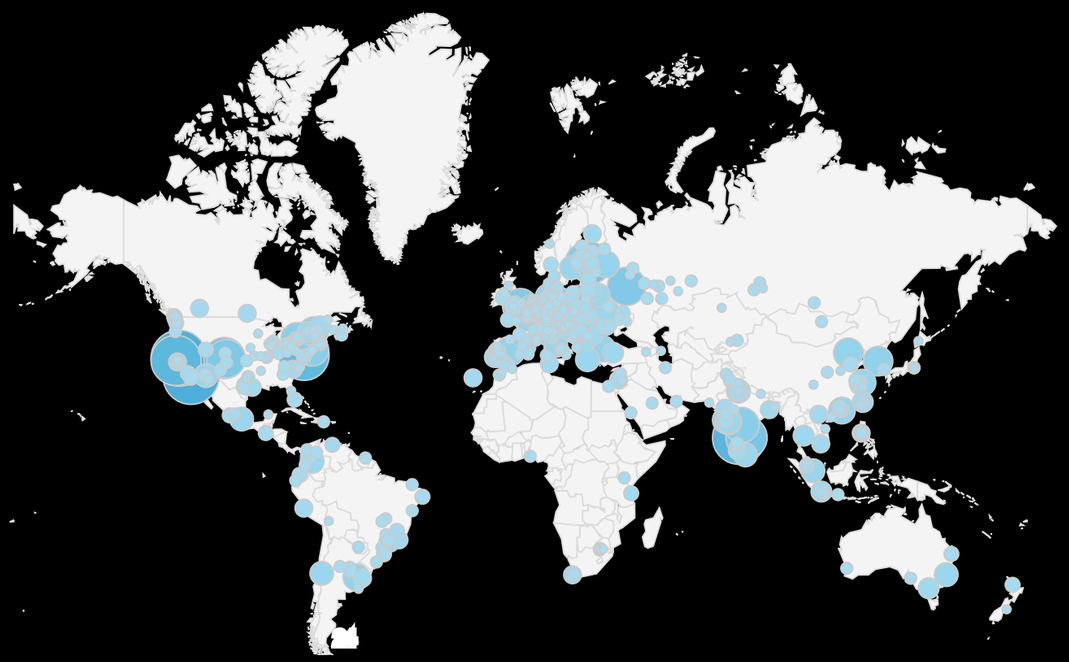
Thousands of companies all over the world are creating compelling and user-friendly web applications using Vaadin. Try googling "who is using vaadin" and see what they have achieved.

Have you created an awesome application using Vaadin? **Contact us to get it listed here.**



Vaadin use by country

1. United States
2. Germany
3. India
4. Canada
5. Finland
6. Russia
7. Poland
8. Italy
9. France
10. China



130k

130k: Over 130.000 developers from 7800 cities use our community portal monthly

In Q2/2013, the use of Vaadin grew 53% from the previous year

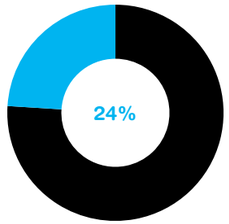
12 years

First Vaadin based enterprise system has been in production since year 2001

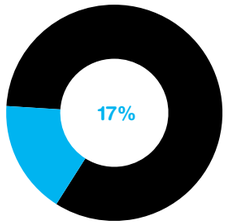
379

There are 379 add-on products available for Vaadin

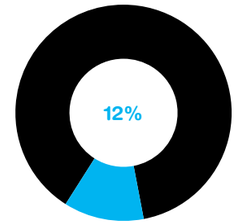
Industry



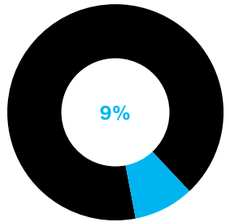
Business Services



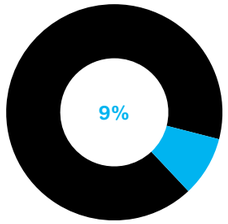
Technology



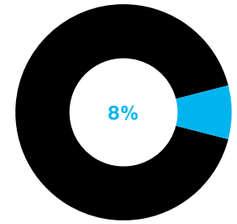
Financial and Insurance



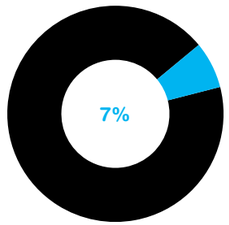
Education



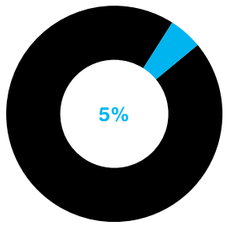
Healthcare



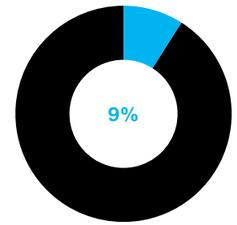
Telecommunication



Industrial Goods



Transport



Other

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