



System Integrators and National Digital ID Programs

5 reasons for new business opportunities,
a case study, and a System Integrator interview

October 2020

Introducing 5 reasons why a global surge in National Digital Identity Programs requires Digital Document Workflow reviews

Around the world policy makers are keen on their country becoming a ["Smart Nation"](#) because it's beneficial to their economy. By making it easier to share and access data, it increases the scope for economic growth thanks to a faster and more efficient exchange of digital documents between governments, businesses and citizens. And an important part of this digital revolution is the introduction of digital identities.

The EMEA and APAC regions both have countries which are at the global forefront of National Digital Identity innovation: Estonia with [eID](#) and Singapore with [NDI](#). Other countries and unions are following suit, albeit at different stages of development. [Thailand's Digital ID](#) Bill, [Aadhaar](#) in India, [eID](#) and [Itsme@](#) in Belgium, [NemID](#) in Denmark, [DNIE](#) in Spain, and Europe's [Single Digital Gateway](#) are only a small selection of the Digital IDs and National Digital Identity Programs being rolled out worldwide.

However, the time where a sleek looking physical ID card containing a chip was considered innovative lies in the past. Today, governments are creating fully-fledged secure digital gateways with APIs that enable private businesses to access personal data from citizens, often with mobile-first authentication and **always with consent**. And that is exactly where huge opportunities for new business are becoming possible for any System Integrator (SI), as long as they pro-actively prepare and introduce the possibilities to their customers. Customers who can benefit greatly from implementing integrations with these national gateways in their organizations, whether governmental or private.

In this book, we've collected a series of articles introducing 5 important key reasons why SIs are, and should be, preparing for a surge in National Digital Identity programs and why it will impact document workflows at every private business or governmental institution.

Timeline

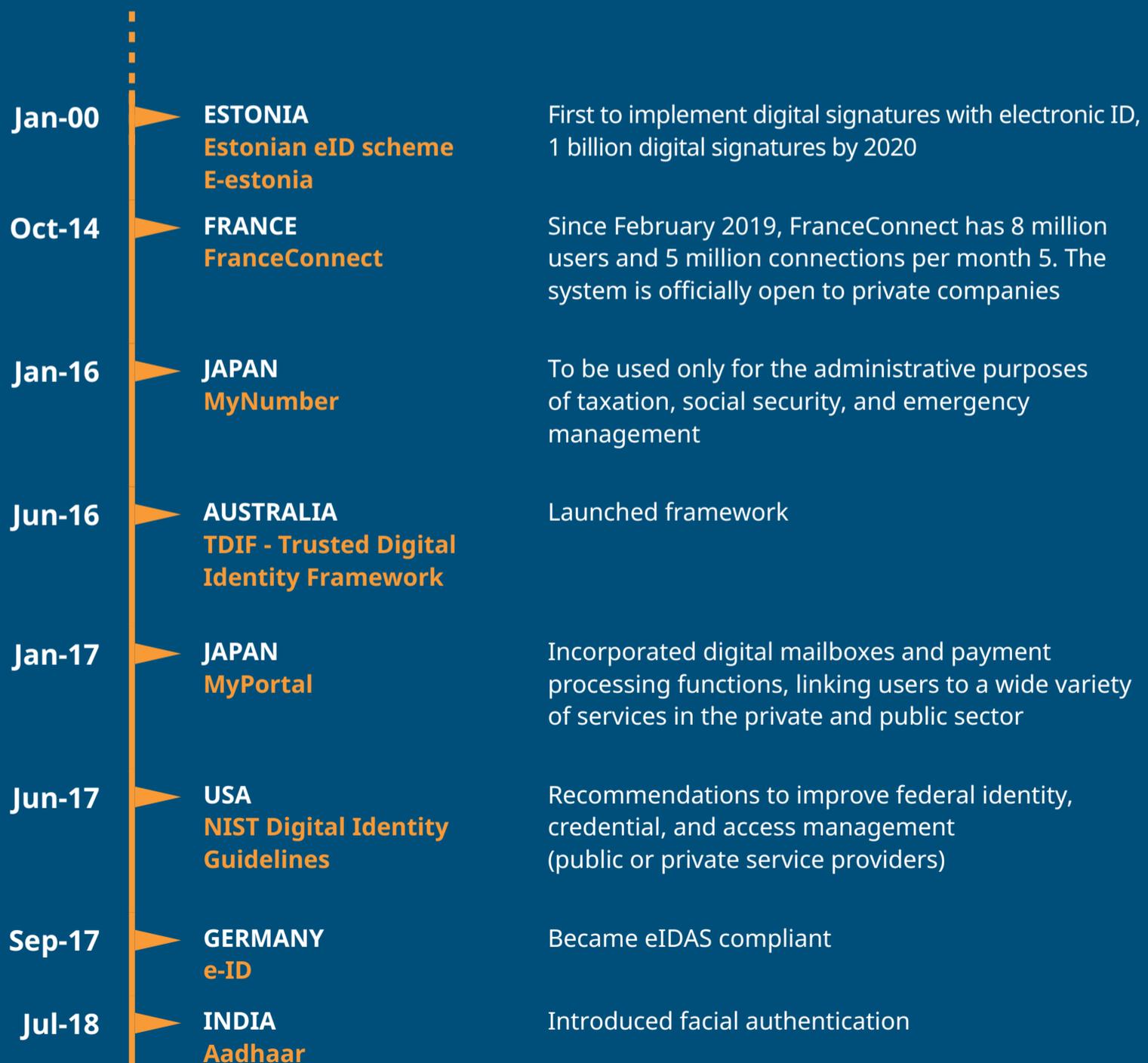
National Digital Identity Schemes

Some important milestones and accelerations

The number of electronic National ID cards in circulation will reach 3.6 billion citizens by 2021 according to research company Acuity Market Intelligence.

Over the next five years substantial opportunities will arise for public, private or combined partnerships to create national transaction infrastructures secured by a trusted national digital identity scheme.*

This reflects a move from an electronic ID to national identity schemes (often mobile first), causing a global surge towards eGovernment and eCommerce services enabled by electronic identities.



Sep-18	ITALY SPID - Public Digital Identity System	Became eIDAS compliant
Sep-18	EUROPE eIDAS (31 countries) electronic IDentification, Authentication and trust Services	EU-wide eID recognition - All organizations delivering public digital services in an EU member state must recognize electronic identification from all EU member states
Oct-18	SINGAPORE Smart Nation Initiative (NDI)	NDI Developer and Partner Portal launched
May-19	UK GOV.UK Verify	Became eIDAS compliant
Jun-19	S KOREA DID Association	By the end of 2020,a new blockchain-based ID solution will be created
Sep-19	NETHERLANDS eHerkenning (EH3)	Became eIDAS compliant
Dec-19	BELGIUM Belgian eID Scheme FAS / Itsme®	Became eIDAS compliant
Jul-20	HONG KONG iAM Smart	Released iAM Smart application programming interfaces
Sep-20	CANADA Pan-Canadian Trust Framework PCTF by DIACC	Digital ID Framework to begin testing



5 Reasons for new SI market potential

- i** **Introduction**
5 reasons why a global surge in National Digital Identity Programs requires Digital Document Workflow reviews
- 2** **Reason 1**
Enormous new market potential for both SIs and Customers due to National Digital Identity Programs
- 3** **Reason 2**
High adoption rates for National Digital Identity Programs cause high demand for digital document workflow integrations
- 4** **Reason 3**
Strict screening and lengthy application procedures for National Digital Identity Program integrations
- 5** **Reason 4**
Proactive vs reactive behavior with National Digital Identity Program integrations
- 6** **Reason 5**
Digital Signing features in National Digital Identity Programs affect document workflows
- c** **Conclusion**
National Digital Identity Program Business Opportunities

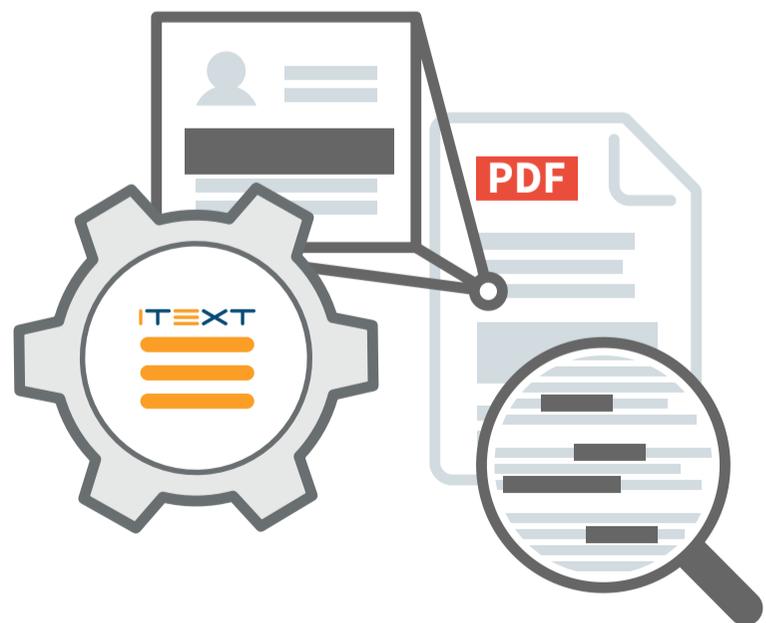
+ **Case study from a System Integrator**
The Modernization of the Belgian Civil Registry project with iText by DXC Technology

+ **Interview of a System Integrator**
DXC Technology elaborates on its cooperation with iText

Reason 1

Enormous new market potential for both SIs and Customers due to National Digital Identity Programs

Let's start with the first reason why SIs should consider the enormous new market potential. Have a look at the ecommerce sector. Those businesses who fail to implement and support the online payment platform most frequently used in a country will lose market share. Customers will purchase the identical product elsewhere at a web shop which does support their payment method. (Mastercard, PayPal, etc.) The choice for a Payment platform integration is very country dependent, just like National Digital Identity Programs are. **Organizations who fail to support National Digital Identity platforms risk becoming perceived as "that foreign company" and could lose market share** just like an ecommerce shop which only offers foreign payment platforms unknown in your country.



Reason 1 High adoption rates for National Digital Identity Programs cause high demand for digital document workflow integrations

In fact, businesses who implement these governmental authentication gateways for citizens create an **enormous user convenience for any customer. Generating more incoming business at a higher rate.**

The head of e-business at [OCBC Bank Singapore](#), one of the largest banks in APAC, **said** that before they had NDI integration, it took customers an average of 2 to 3 working days to open an account. **Thanks to the integration the same application was cut to under 5 minutes. Their digital applications went up 3 times in the months following the integration and 80% of those applications were using the authentication gateway from the government.**

Integrating with National Digital Identity Programs demands a certain level of technical expertise, this means many private businesses will be looking for a System Integrator who knows the ins and outs of their national program and is capable of helping them with the integration of their software with the program.

The System Integrator who possesses this knowledge and markets this best to private businesses creates a **big new business driver** to win new projects at existing and new clients. It strongly **differentiates them from any direct competitors** in a very new market segment.

Aside of showboating the certifications your developers have achieved during big pitches, proving SIs know their way around National Digital Identity Programs has also become a decisive argument in convincing clients to work together.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

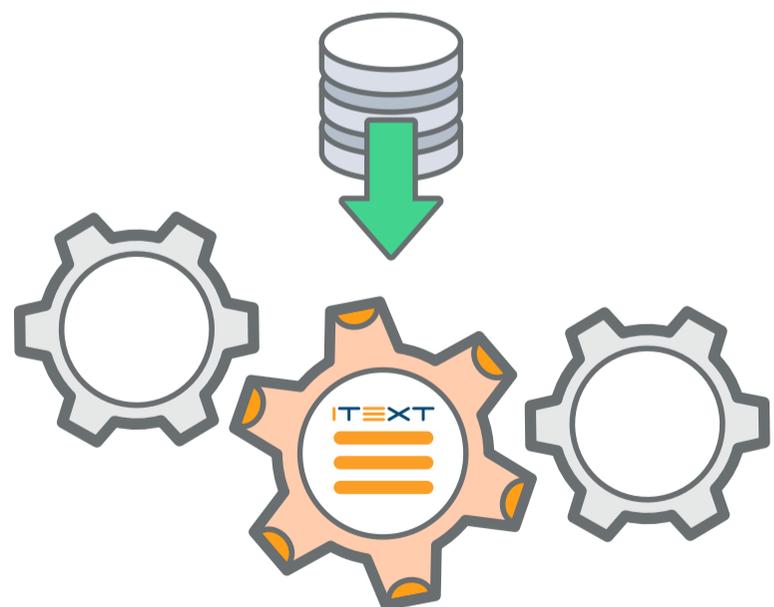
iText is a System Integrator time saver for digital document workflow implementations



Reason 2

High adoption rates for National Digital Identity Programs cause high demand for digital document workflow integrations

Registering or booking appointments in [healthcare](#), finance, telecom, real estate or hospitality using a National Digital ID will become default citizen behavior. Citizens will finally be able to avoid the slog of manually filling out forms, or having to repeatedly provide their personal data over and over again when signing contracts online. **National Digital ID programs allow the prefilling of personal data and make logins easier and more secure. This trustworthiness and user convenience are the key reasons why quick and high adoption rates are easy to understand.**



Reason 2 High adoption rates for National Digital Identity Programs cause high demand for digital document workflow integrations

Some private business owners might complain how some governments are often rather slow and conservative in implementing new regulations to let private businesses and the economy really thrive. Make no mistake, National Digital Identity Programs are nothing like that. High adoption rates will demand private business to plug in on time or will otherwise end up as the pot calling the kettle black.

Because of these programs, citizens are increasingly expecting any existing paper document exchange or signing of an agreement on paper, between a private business and a customer, to transform to a digital workflow. This requires businesses to [manipulate PDF documents in high volume, digitally sign](#) and [secure](#) PDF documents using National Digital Identity Platforms, etc.

If we look at Estonia as an example, lauded as [the world's most digitally advanced society](#), there is a [study on the usage of qualified electronic signatures](#) among 15-64 year-old citizens performed by Ernst & Young Estonia Baltic AS in collaboration with the Estonian Ministry of Economic Affairs and Communications. It showed take-up of the electronic identities and [e-signatures](#) by the private sector in Estonia, **especially by the financial sector**, has been extremely important.

To put it simply, how annoying is it when you have to reenter the same personal details over and over again on different online platforms? And when you move, or your family situation changes, everything needs to be updated all over again? National Digital Identity Programs avoid these negative user experiences. Your personal details are centralized by the government and business or public institutions can access them with your permission, relieving you from a lot of lost time. You would more than happily adopt such technology, right? And we've not even mentioned receiving forms, printing, signing, scanning and emailing them back to businesses. Who still wants to do that? Honestly?

Let's get those businesses integrated and not look back anymore.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

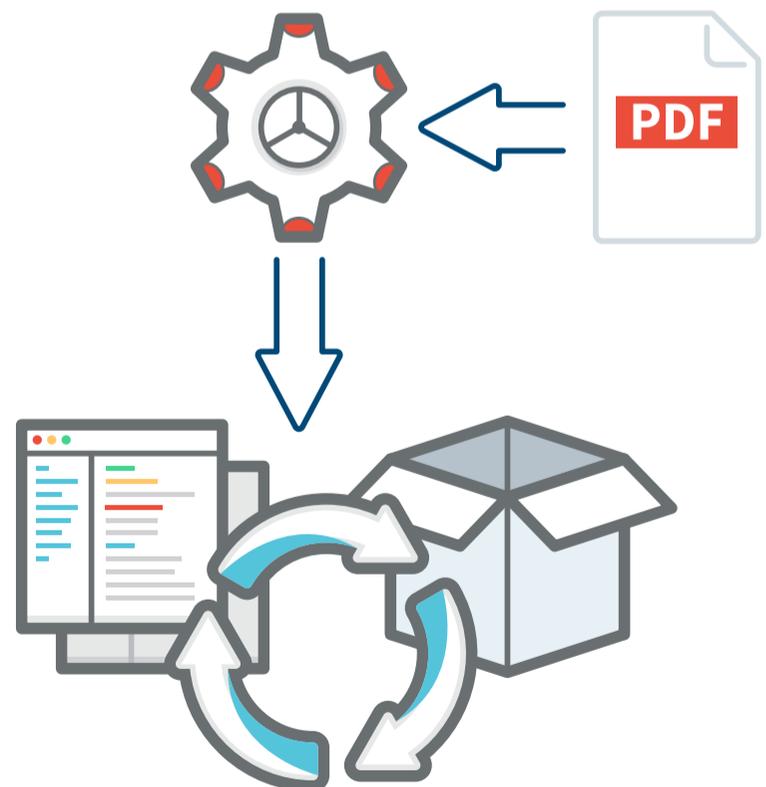
iText is a System Integrator time saver for digital document workflow implementations



Reason 3

Strict screening and lengthy application procedures for National Digital Identity Program integrations

Integrating digital document workflows with National Digital Identity Programs is one thing. But once ready you need to submit the software for review.



Reason 3

Strict screening and lengthy application procedures for National Digital Identity Program integrations

Compare it with submitting a new app to any app store (Google, Apple, etc.) for approval. Those with development experience will tell you the app will be going back and forth a couple of times (due to a wide range of audit reasons) before it's approved. The same thing is to be expected when working with National Digital Identity Programs.

System Integrators realize their clients will have to pass strict screening and lengthy application procedures before being allowed to link up with the API of a government. And that takes time which is much harder to predict and estimate compared to software development time. Which means SIs need to calculate ample time when starting on projects like these. Communicating this crucial difference in time spend to their customers. Because SIs have control over one thing, which is their own software development time, they increase their chances to win pitches based on total lead time if they train and educate themselves beforehand on the involved National Digital Identity program and digital document workflow technologies to deliver projects like these.

It isn't a bad idea to **start refreshing your [PDF Signing](#) and [Security](#) knowledge today.**

"To be prepared is half the victory." as they say.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

iText is a System Integrator time saver for digital document workflow implementations



Reason 4

Proactive vs reactive behavior with National Digital Identity Program integrations

When clients inform their system integrator of a new feature they should be implementing, they invariably receive 2 answers from tech people: a) "We'll have to look into that." or b) "Yes, actually we've done this before for another client." Both answers feel like all this time an opportunity was up for grabs and the specialist you hired to be on top of new technology innovations didn't spot it, or didn't mention it existed. In both situations it doesn't really feel great to a customer.



Reason 4 Proactive vs reactive behavior with National Digital Identity Program integrations

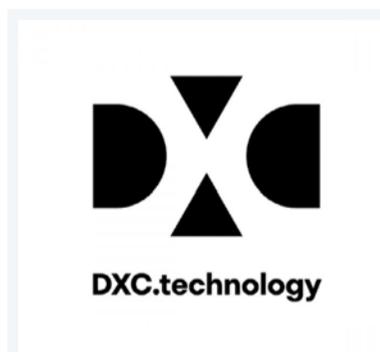
The way a System Integrator avoids missed opportunities and can really score points with clients is when they propose a new crucial implementation they hadn't yet thought of themselves. **System Integrators could also benefit the personal career of a client by enabling them to claim the idea as their own when presenting it to the key decision makers within the organization.**

No one wants to be part of a purely reactive organization, or an IT team who's playing catch-up to learn and implement an important new technology because more proactive competitors already have. That's why System Integrators should be prepared and on top of their game regarding national digital identity programs and document workflows. Clients will love them for it.

The potential for businesses who integrate with these programs is still unknown to many management levels. The time and money saved by having fully digital document workflows actually increases the benefits of such integrations. If an SI can proactively present a case to their customer with a before and after national digital identity program integration scenario, there's a big chance the scales fall from their eyes and you're about to win a new project. Governments are known to be releasing numbers and statistics on these programs, so you can easily implement them in any presentation.

As a creator of digital document workflows in circumstances where national digital identity programs appear on the horizon, both the SI and customer will always benefit.

Be a creator of circumstances rather than just a creature of circumstances. Be proactive rather than reactive.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

iText is a System Integrator time saver for digital document workflow implementations



Reason 5

Digital Signing features in National Digital Identity Programs affect Document workflows

The most well-known facts on most National Digital Identity Programs are features where the digitally signing of official documents for businesses and public institutions become possible to citizens. But did you ever consider the document format in which those documents are being delivered globally?



Take a look at the capabilities of PDF as a document format. It doesn't just enable the sharing and access of information across multiple applications, hardware, and operating systems; **it allows businesses to guarantee the authenticity, security and traceability of their documents.** It's used to produce invoices, certificates, boarding passes, application forms and more allowing digital signatures to secure contract commitments. It goes far beyond simply being perceived as a digital visualization of a piece of paper. It's a digital container which can contain many types of data, bundled with a wide array of interactive functionalities. Be sure to read our blog on how to use [PDF portfolios](#) for more details. Needless to say, PDF will be an integral part of data exchange between any National Digital Identity Programs and the software implemented by System Integrators.

National Digital Identity Programs are an eco-system where [digital signing](#) and [security](#) of PDFs will be extremely important and form a crucial cornerstone when exchanging data with those programs.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

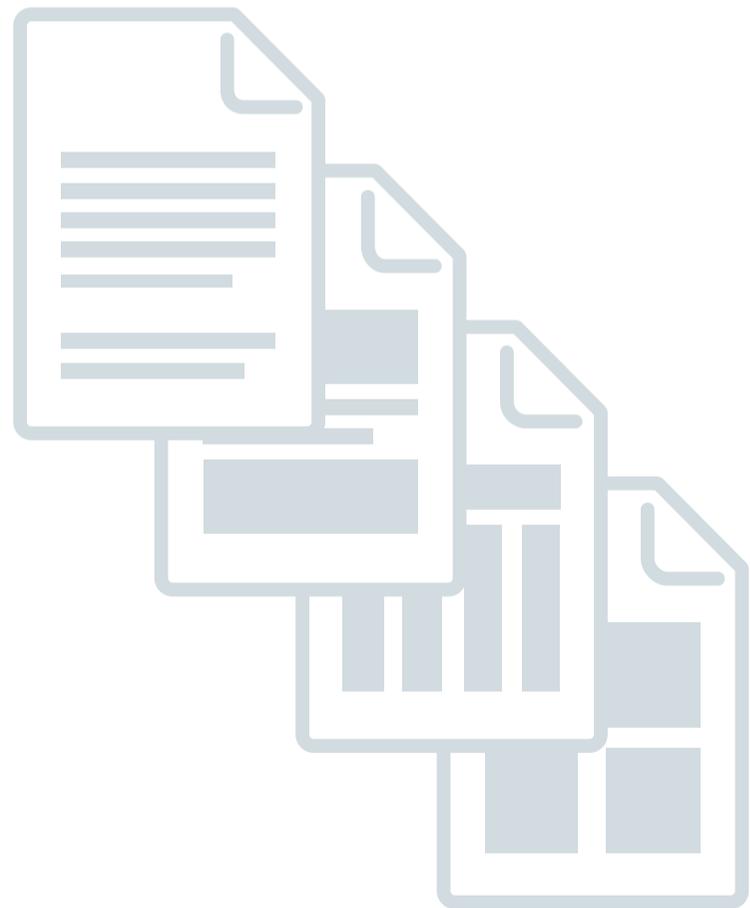
iText is a System Integrator time saver for digital document workflow implementations



Conclusion

National Digital Identity Program Business Opportunities

We can conclude that secure generation and handling of PDF documents is an absolute necessity for any software development team. Now, more than ever before, [digital signing of PDFs](#) will be in high demand due to the surge in national digital identity programs.



Yet we should also debunk a common misconception that national digital identity programs are only about digitally signing documents. Such a narrow focus ignores the fact that there is much more to it. Today's businesses will also need fully automated digital document workflows **before** they can integrate optimally with national digital identity programs. The creation, manipulation and processing of digital documents are everyday demands... It doesn't begin and end with digital signing only.

We can testify that many System Integrators choose to work with a proven and existing technology like iText. Why? Because it saves them enormous amounts of development time and effort by flattening the learning curve, freeing up more time **for example, to focus on the API of a national digital identity program**. The [iText 7 SDK](#) makes developing a PDF document workflow easier by providing high-level APIs in addition to low-level document manipulation capabilities.

Yet iText also offers a low-code option for PDF creation and production with [iText DITO](#), meaning users with little or no developer experience can also participate in the design and generation of documents leading to a more collaborative approach to process automation and digital transformation. With its [intuitive template designer](#), you can quickly define the visual layout for generated PDFs, while also using data binding to link elements in your templates to insert and manipulate data. And with a powerful [API for PDF generation](#) built on iText 7's renowned **high-volume document production capabilities**, you can be assured it is capable of meeting your needs. Plus, it is simply easy to use!

The conclusion is simple. First, businesses must make sure they have their document workflows digitized and fully automated, before they can begin exchanging the secure online documents enabled by national digital identity programs. Once these authenticated digital documents can be easily digitally signed and processed more efficiently, in much less time, it will increase your potential for new business generation.



Read the interview with [DXC](#), a renowned global [System Integrator](#), about the cooperation with iText on Automating Document Workflows.

iText is a System Integrator time saver for digital document workflow implementations



Powering the digital future of civil records in Belgium

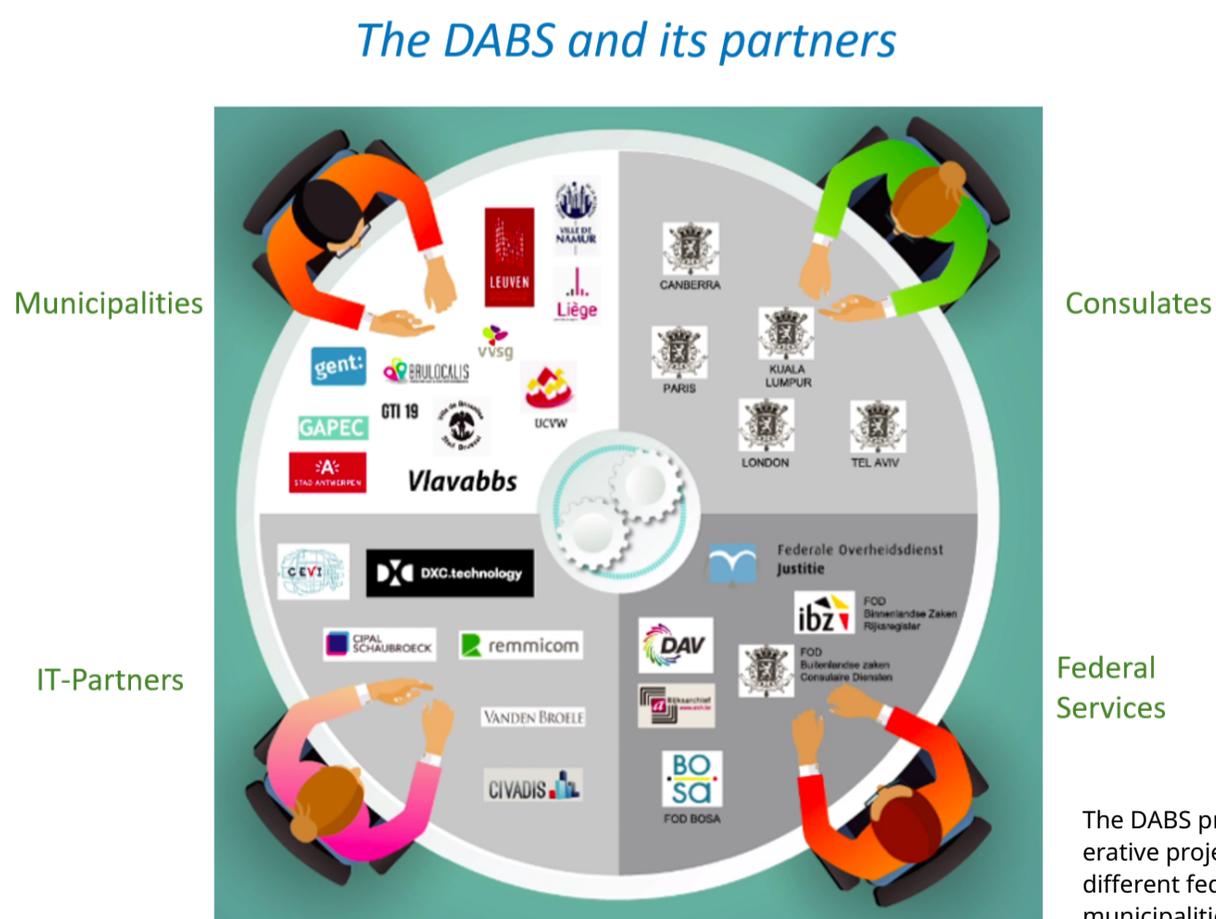
Digital storage and distribution of information is the future. That's why the DABS (Databank voor de Akten van Burgerlijke Stand or Database of Civil Registry Records) project was initiated by the Belgian government. This cooperative project between the Department of Justice, Department of Internal Affairs (including the National Register), Department of Foreign Affairs, Municipalities and Consulates and many other government departments is an initiative that has been coordinated by the Dienst Administratieve Vereenvoudiging (DAV) or Administrative Simplification Service.

Read on to learn how iText DITO® is being used to revolutionize citizen certification inside (and outside) Belgium.

BACKGROUND

The DAV or Administrative Simplification Service was established in Belgium in 1998 and was initially instructed to propose measures to reduce the administrative complexity for companies and the costs associ-

ated with this administration. In 2003 this assignment was extended to include simplification actions for citizens, which is where the DABS or Database of Civil Registry Records project comes in.



The DABS project's aim is to centralize all citizen certifications (birth, marriage, death, recognition, adoption, change of nationality...) in one large digital database, and make the process entirely electronic from start to finish.

Traditionally in Belgium, citizen information was held by local authorities, each with their own template for creating every type of certificate. This meant that to access a person's records such as a birth certificate, they had to be requested from the person's respective local authority. Meanwhile citizens would need to travel to their place of birth in order to request a copy of the certificate in person.

This system had been in place since the time of Napoleon, and in the modern world caused a significant amount of administrative complexity and wasted time. The new electronic system would allow both authorities and citizens easier access to records, both inside and outside Belgium.

DXC Technology was awarded the contract to coordinate the project from a technical point of view and to implement a digital solution replacing this outdated methodology. DXC approached iText as they recognized our expertise in PDF technologies and had been a trusted partner in the implementation of several previous projects at the FPS Justice and others.

GOALS

- To create citizens' civil state certifications in one central database in a dematerialized format
- To request extracts from a certificate independently of the place where the certificate was created
- To reduce administrative complexity and wasted time
- To completely replace the existing non-digital document workflow
- To support all required languages: French, Dutch and German

CHALLENGES

Based on their experience with the iText SDK during the JustX project, DXC initially planned on developing a custom template solution using iText 7 Core to handle the requirements for each type of document. With this in mind, they had begun coding the required PDF templates.

However, during the initial development stage in February 2018 they contacted iText to see if there were any other possibilities to aid their development. During these discussions iText recognized that this project would be the perfect test-case for their latest innovation – iText DITO®, a powerful PDF template engine which combines iText's proven abilities in mass-producing high-quality PDFs, with a graphical interface for designing templates.

iText DITO was developed to give both developers and non-developers a way to design and maintain templates to produce PDFs without any programming. Instead users are able design their templates visually and

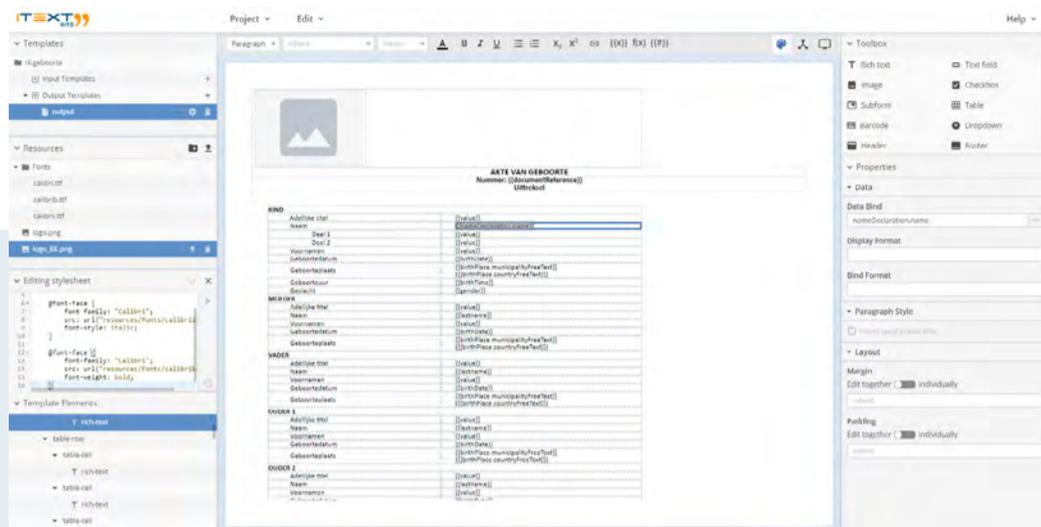
can link data from various sources to elements of the template in the same way.

iText worked with DXC to develop proof of concept templates from examples of the existing non-digital document workflow. The templates that were prepared were well received. DXC could immediately see the added value of iText DITO and that it would prove to be an enormous time saver compared to their planned approach.

It was clear that designing the templates visually would be a much better solution and enable more customizability of templates. In addition, the ability to define the data binding functionality in the editor would also be a boon to development.

In turn, iText was able to use the feedback from DXC to influence the development of iText DITO as a product, in order to implement the features and functionality required for the solution DXC was developing. By working together closely, both companies benefitted from the collaboration.

OFFERED SOLUTION



Editing a DABS template in the iText DITO Editor

How the iText DITO solution transforms public record management

By using iText DITO's template designer, each certificate template can be unified into a standardized format, which is used for both printed and online versions. However, it can also be easily customized for each local authority's needs - for example to use their own logo for every type of certificate. With almost 600 different local authorities included in the scheme, this could be a complex task using conventional coding methods.

Unlike traditional template solutions, iText DITO enables quick and easy updates to templates when content changes are required such as when the law changes. With hardcoded templates, even slight edits require recoding and testing to be carried out, wasting valuable development time and resources. Not so with iText DITO.

Thanks to the intuitive graphical interface, designing templates can be carried out without requiring extensive training or technical knowledge, and because of its browser-based technology it can be used on virtually any device, with no software installation required.

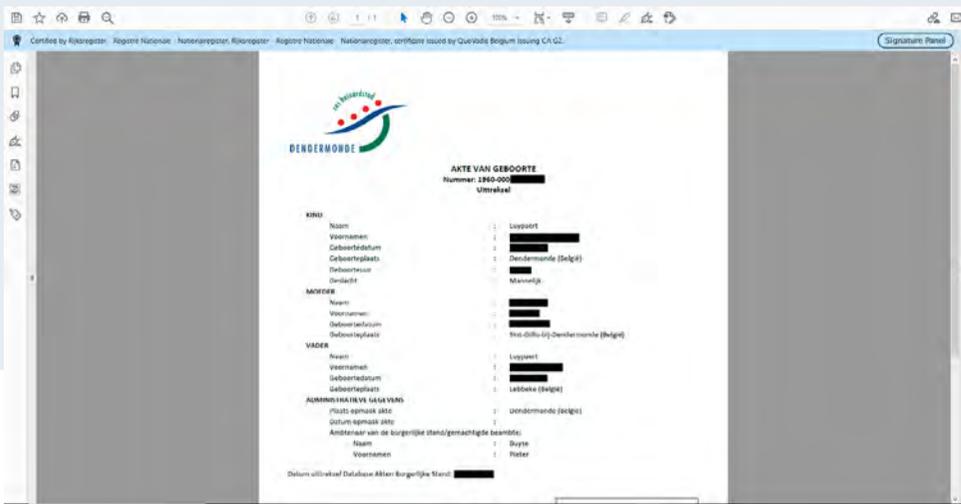
As local authorities may have their own IT partner arrangements, with specific applications already developed to enter data digitally, they were not required to change their existing software. Instead the data required for a certificate is transmitted using a web service developed by DXC. The web service then takes the data and converts it into

the widely used JSON (JavaScript Object Notation) format. The iText DITO SDK takes the data and injects it into the appropriate template, and then generates the required PDF certificate.

As with all PDFs generated with iText technology, they are standards-compliant and highly compatible, and iText DITO supports the latest PDF 2.0 specification.

“The DABS solution using iText DITO unites the data and workflow from all local authorities in the Flemish, Walloon, and Brussels-Capital regions of Belgium, and supports all three languages used by the administrations. Since the launch, our administrative work has become much simpler, and access to information is easier for both civil servants and citizens.”

Erwin De Pue - Director General: Belgian Government Dienst Administratieve Vereenvoudiging (DAV)



An example of a PDF generated using from iText DITO, combining citizen information from the database with the template (some details have been redacted).

The generated certificate is then handed off to a separate system to be digitally signed, making it a legally recognizable document that can be used by multiple govern-

RESULT

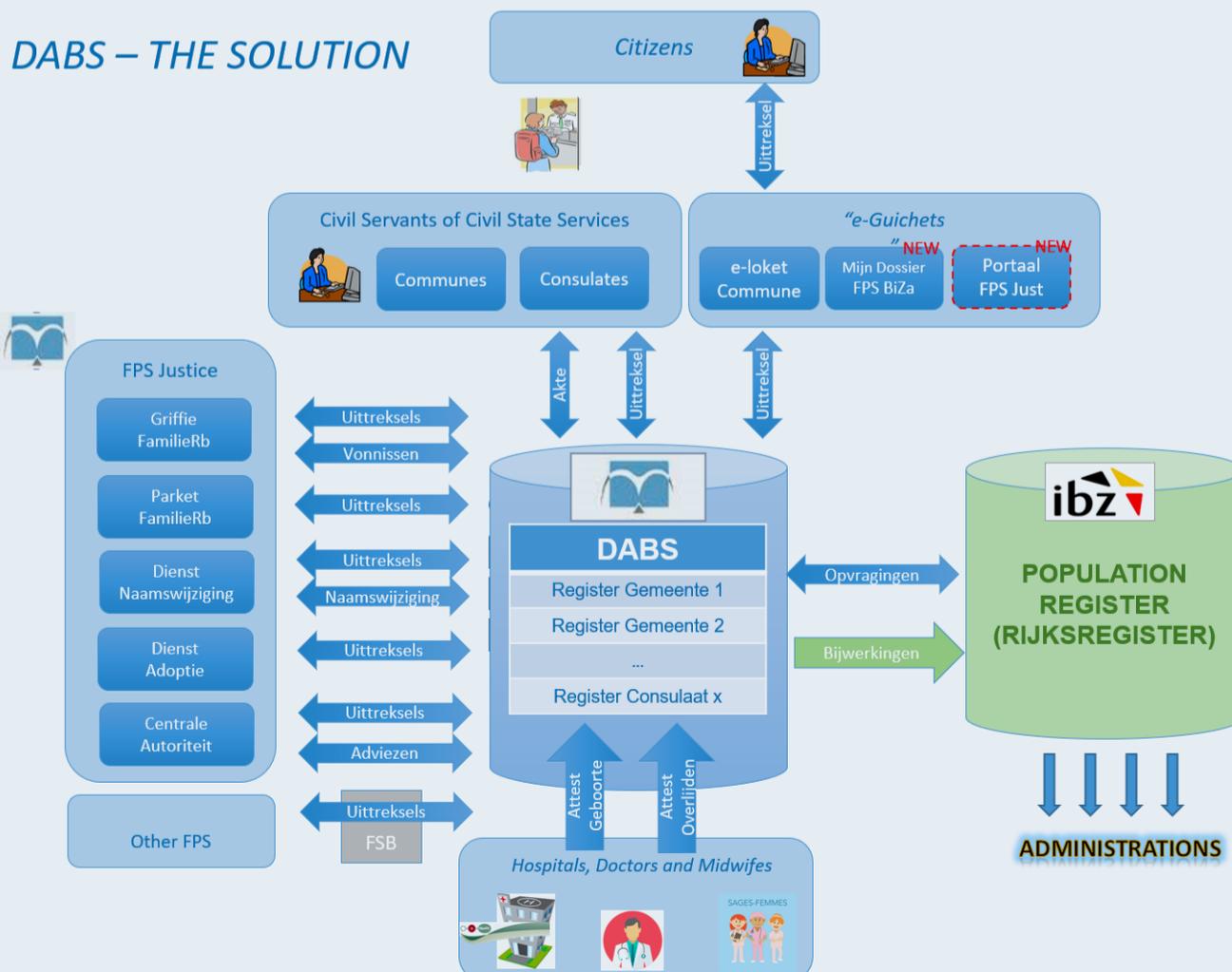
The digital civil registry has been in operation since 31st March 2019. From that date all civil status records are now digitally created and recorded in the DABS central database. This means that in 581 municipalities across Belgium and 102 consulates abroad, paper deeds are finally a thing of the past for citizens.

For example, drafting documents such as birth or marriage certificates no longer requires a pen and paper. Civil servants from both the municipalities and Belgian

mental organizations. In addition, extracts of documents can be quickly and easily verified with the use of a QR code, which is added using iText 7's Core library.

consulates can instead sign the documents digitally and store them in the central database, from where extracts and copies can easily be accessed.

Citizens are no longer required to make long journeys in order to obtain copies or extracts of documents. Instead, they can go to their local residential authority or use an "e-loket" electronic portal, which significantly reduces time and costs. Thanks to the increased speed of communication and data exchange it also ensures more legal



An overview of the entire DABS solution

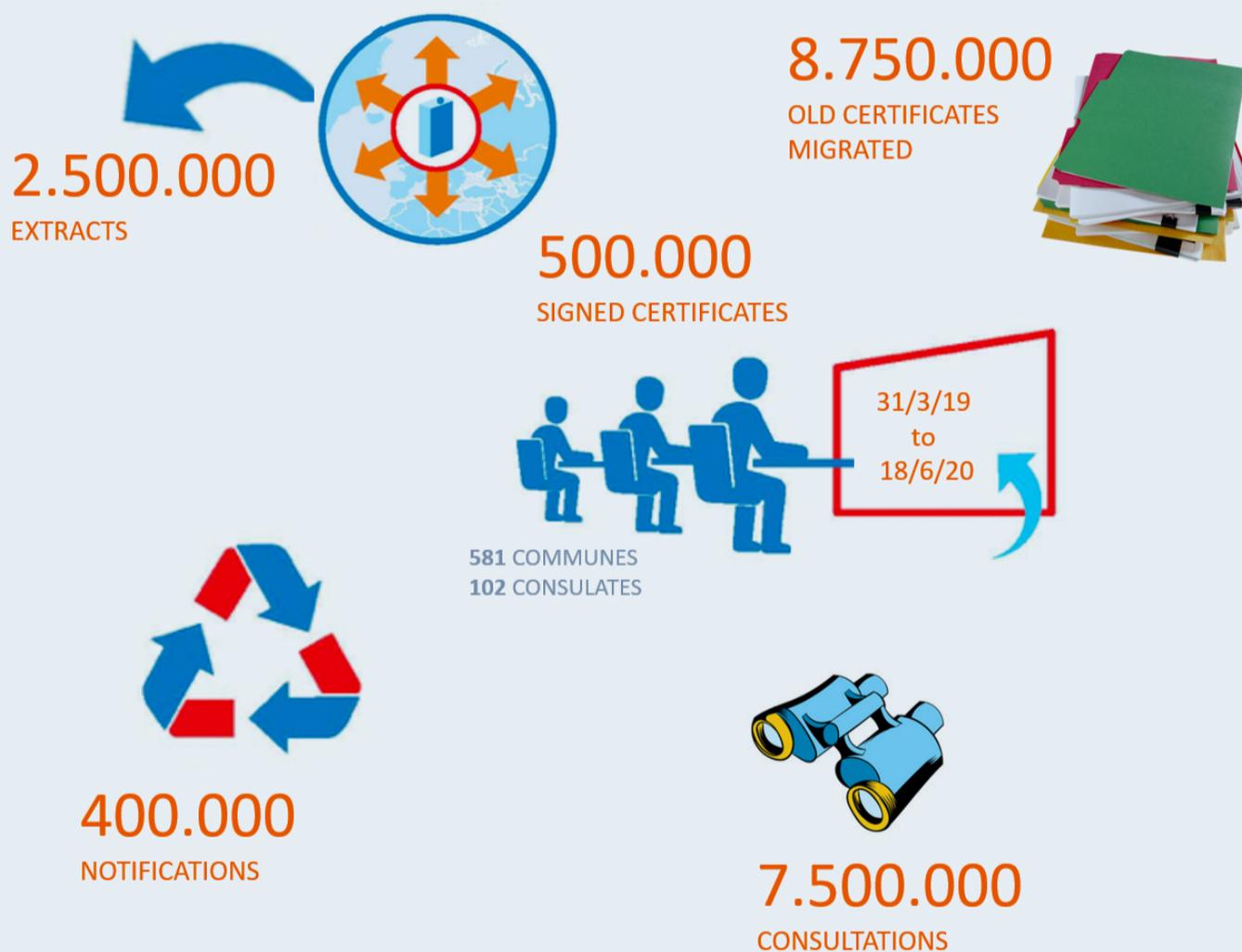
certainty (e.g. divorces can be processed up to a month and a half faster).

Compulsory digitization also has the benefit of eliminating the inconvenience of storing and updating millions of paper deeds in town halls and courts. Paper archives can now go into long-term storage as they no longer need to be quickly accessible, which also cuts costs.

An additional benefit is that judgments related to civil state facts are handled automatically, which reduces the operating costs for the municipalities.

At the federal government level, the clerks are no longer required to draft and send judgment bulletins to the registry office. This means no need to update and store the duplicates of the deeds. Public prosecutors can perform their supervisory function in a modern and centralized

DABS – SOME FACTS AND FIGURES



Facts and figures from a report of the success of the DABS project

“Our solution needed to unify data from almost 600 local authorities across Belgium and allow the production of civil records in a standardized, legally-compliant format. iText DITO allowed us to quickly design and configure the templates we required and generating high-quality PDF documents on a massive scale was no problem. We also appreciated the support from the iText development team and their willingness to implement new features and functionality as required.”

manner, and their workload is also decreased due to the fact that municipalities can correct errors themselves.

The project to digitalize the civil registry has been a great success. In fact, in December 2019 the project received the [Agoria e-Gov Award for Best Project of 2019](#). It was also declared the winner of the award in the Profitability subcategory.

It's no wonder, when you consider impressive figures like 8.75 million old deeds migrated, or annual savings of 39.6 million euros in administration costs for citizens, businesses, municipalities and the federal government.

There are also significant benefits to the environment, as thanks to the convenience of the new system it is estimated that over 7 million sheets of paper will be saved each year.

8,750,000

**PDF DEEDS MIGRATED
SINCE MARCH 2019**

39,600,000

**EUROS SAVED ANNUALLY IN
ADMINISTRATION COSTS**

5,100,000

**PDF DEEDS REQUESTED FROM
THE CENTRALIZED DATABASE**

About DXC Technology

As the world's leading independent, end-to-end IT services company, [DXC Technology](#) leads digital transformations for clients by modernizing and integrating their mainstream IT, and by deploying digital solutions at scale to produce better business outcomes. The company's technology independence, global talent, and extensive partner network enable 6,000 private and public-sector clients in 70 countries to thrive on change.

iText DITO helped with this project. Could it help with yours?

Now you've learned how iText DITO contributed to the Belgian government Databank van Akten van de Burgerlijke Stand (DABS) project's success, what could it do for you?

LEVERAGE DATA WHEREVER IT RESIDES

The iText DITO SDK can leverage information from your chosen data source, whether it's from an input form, RESTful API, a database, or wherever your data is stored.

is content that will be printed on every document based on a template. Dynamic content is variable content, typically defined by data bindings, conditional statements, or formulas.

EMPOWER BUSINESS USERS TO OWN THEIR TEMPLATES

With its intuitive graphical template designer, you can train anyone to be a template design wizard in little or no time. No need to rely on expensive professional designers or software; templates can be designed and maintained by the people who actually use them.

REDUCE COST AND DELIVERY TIME OF DOCUMENT AUTOMATION PROJECTS

iText DITO allows your development team to focus on what's actually important – development. By enabling business users to take care of template design and maintenance, developers are no longer required to spend valuable time coding, recoding, and testing templates whenever changes need to be made.

MASS-PRODUCE STATE-OF-THE-ART PDFS

Being a highly scalable template engine, iText DITO can be used to design and deploy any number of templates and produce however many PDFs you require, with support for the latest PDF 2.0 standard and PDF/UA output. Unlike many other template solutions, it is truly enterprise-grade and can grow with your needs.

SIMPLE AND FLEXIBLE DEPLOYMENT

Deploying iText DITO is easy. The iText DITO SDK which generates your documents is available as a Docker image, native Java, or a Windows CLI application, meaning it can be implemented in any software environment. The iText DITO Editor can run in a browser locally or on your intranet, allowing it to be accessed from anywhere with no software installation required.

WYSIWYG TEMPLATE DESIGN EDITOR

The iText DITO Editor allows users to visually design templates using rich text, forms and subform elements, tables, images and more. The templates you design can contain both static and dynamic content. Static content

SUPPORTS MULTIPLE LANGUAGES AND COMPLEX WRITING SYSTEMS

Another key benefit of iText DITO is its support for global language/ligature support. Templates can be created for use with multiple languages which can be rendered correctly thanks to its ability to use complex writing systems and fonts.

EMBEDDED TEMPLATE RESOURCES

Templates and their resources are embedded within an iText DITO Project file. Project files are template packages which include all the resources required for each template, such as images, fonts, CSS for custom styling, and a JSON data structure file to define data bindings for templates. There is no limitation on the number of projects you can create, and they can be exported and stored in local or shared locations.

CONDITIONAL LOGIC FOR CONTENT VISIBILITY AND FORMATTING

You can show or hide sections of your generated documents based on conditions and add text formatting to conditions, allowing you to style data bindings depending on their value.

FILTERED LOOPS

With filtered loops you have a straightforward mechanism to build tables with repeating rows that show a filtered subset of the items in an array

PDF/UA COMPLIANCE ASSISTANT

Offers a guided experience to help you design templates that will generate PDFs that comply with the PDF standard for Universal Accessibility (PDF/UA). Such PDFs are optimized for assistive technologies and are essential for compliance with accessibility regulations such as Section 508 of the United States Rehabilitation Act which specifies that PDF documents must be PDF/UA compliant to allow people wider access to information.

PASSWORD PROTECTION FOR GENERATED PDFS AT THE API LEVEL

You can set user passwords which prompt users to fill out a password to open the document, owner passwords which prompts users to fill out a password to interact with the document, or both. Protection levels can be set through the Encryption Properties of the PDF Producer operation.

BARCODE GENERATION WIZARD

You can generate both two-dimensional and three-dimensional barcodes from input data contained in the JSON payload. The wizard consists of three steps to insert a scannable barcode into your template.

A System Integrator Interview with Michel Luypaert, IT Program Manager at DXC Technology.

iText had the pleasure of interviewing Michel Luypaert, IT Program Manager at DXC Technology Belgium in relation to their recent amazing work for the Belgian government. The “DABS” project for digitalizing the civil registry has been a great success. In fact, in December 2019 the project received the Agoria e-Gov Award for Best Project of 2019. It was also declared the winner of the award in the Profitability subcategory.

DXC Technology is the world’s leading business transformation and System Integrator company, helping customers harness the power of innovation to thrive on change. Born of the merger of CSC and the Enterprise Services business of Hewlett Packard, DXC serves nearly 6,000 private and public-sector enterprises across 70 countries.



Figure 1: Michel Luypaert, front row first from the left, with the DAV team

2019 © Agoria
<https://www.agoria.be/nl/Modernisering-burgerlijke-stand-wint-e-gov-Award-2019>

Hello Michel. Can you give a brief introduction of yourself, and your responsibilities at DXC?

I am responsible for the DXC team that provides IT services to the DAV (Dienst Administratieve Vereenvoudiging or Administrative Simplification Service) and its partners under a framework contract. These IT services mainly concern the public and / or development of large-scale intersecting programs within the government involving multiple partners from the public and private sectors. The most recent program was the Modernization of the Civil Registry program, which involved collaboration with the Department of Justice, the Department of Internal Affairs,

the Department of Foreign Affairs and the IT partners of the municipalities. As the program manager, I am responsible for general coordination within the framework of these programs.

What challenges did you face and overcome by partnering with iText?

Our primary challenge was to meet the concrete needs of the Modernization of the Civil Registry program, and we worked together with iText to develop iText DITO as a product with the features and functionality required for the task.

Where exactly did iText help DXC differentiate from other competitors?

iText DITO allows to quickly design and adjust reports via a graphical editor. This activity can largely be performed by functional analysts. Working in this way makes it possible to save time when managing reports.

What constitutes an ideal cooperation between 2 partners in your eyes?

I think the collaboration is ideal when there is a clear will among both partners to create a joint win-win situation where the partners strengthen each other when developing a solution. Or, to put it another way, $1 + 1 = 3$, where added value results from the synergy between partners move on.

Could you give some concrete examples on the level of teamwork and support received from iText?

Throughout the period of collaboration, there were several design / test sessions where DXC gave an overview of the needs and requirements of the program and where iText proposed solutions to meet these needs. This agile way of working together has resulted in the addition of multiple functionalities that were not initially present in iText DITO. Even when we encountered problems when using the new tool, we could count on active support from iText. A Slack communication channel was even set up to optimize communication between the iText DITO team and DXC's developers.

It's good to hear the collaboration on this project was a success. Moving on, I believe this has led to DXC working on the implementation of a National Digital Identity system?

Within the context of the Civil Registry Modernization program, the DXC team worked very actively with the National Register team and as a result has amassed important knowledge and experience with regard to the way in which a National Digital Identity system was set up in Belgium.

Furthermore, DXC experts supported the National Register team in designing the solution for the new eID card and guiding the purchase procedure. This knowledge and experience will be applied in other international programs.

Have you experienced an increase in demand for document workflow projects where digital signing and securing PDFs is required?

We notice a trend to exchange more and more evidence in electronic form. This is also a requirement of the Single Digital Gateway Resolution. When this evidence is exchanged electronically, it is important that its authenticity is ensured with the addition of a secure electronic seal or signature.

How would you explain the increase in popularity for low code wizard like dev tools (ex: iText DITO)?

There is a general demand to work more agile, to deliver solutions faster and at a lower cost. Productivity tools such as iText DITO, where mock-ups can be made quickly that can be easily adjusted, fit in well with this.

What's your vision on further future cooperation?

We experienced the cooperation with iText as very positive, and we look forward to working together in new projects.

Thanks for talking to us, Michel, and we look forward to working with DXC again soon!

ABOUT US

Get to know iText



ITEXT

Your boarding pass for your flight. Or an invoice, receipt or form in a PDF format.... Most likely they were generated by iText technology!

iText is a global leader in innovative award-winning PDF software. It is used by millions of users - both open source and commercial - around the world to create digital documents for a variety of purposes: invoices, credit card statements, mobile boarding passes, legal archiving and more.

iText works and works well. Our customers choose iText because of our world-class quality of software, and our reliable mature, proven technology in the iText SDK. We are recognized as a global thought leader and innovator in PDF solutions and functionalities. As an open source PDF library, iText PDF can be embedded into the document solution workflows of various industries and their applications.

Our diverse customer base includes many of the Fortune 500 companies, as well as small companies and government agencies. We strongly believe in the value of open source software. Our core library, iText 7, is available under the AGPL license. We also offer commercial licensing for customers that do not wish to comply with AGPL and want to keep their source code private.

VISION

In a world in which speed and efficiency are paramount, we enable companies and people to build the most reliable solutions for document and data exchange, effortlessly.

MISSION

It's our mission to be the most trusted and comprehensive technology provider which perfectly leverages the power of PDF, by offering open-source and enterprise solutions that streamline the generation and consumption of documents and data.

CONTACT

marketing@itextpdf.com
www.itextpdf.com





OUR OFFICES

EUROPE, MIDDLE EAST, AFRICA & CIS

AA Tower
Technologiepark-Zwijnaarde 122
9052 Zwijnaarde
Belgium

sales.isa@itextpdf.com
Tel +32 9 298 02 31
Fax +32 9 270 33 75

AMERICAS

265 Medford Street,
Suite 500
Somerville, MA 02143
United States

sales.isa@itextpdf.com
Tel +1 617 982 2646
Fax +1 617 982 2647

ASIA & OCEANIA

Republic Plaza
9 Raffles Place, Level 6, Republic Plaza 1
SINGAPORE 048619
Singapore

sales.isa@itextpdf.com
Tel +65 6932 5062

itextpdf.com