

THE **NRB** GROUP

MAINFRAME:

CORE SYSTEM IN A HYPER
CONNECTED WORLD



OUR PARTNER



MAINFRAME: MORE RELEVANT THAN EVER?

CONTEXT

- In today's hyper-connected world, consumers have instant access to and response from their social and personal networks. Your employees, customers and partners expect the same **speed, interactivity and personalised services** in a professional context.
- Speed and time-to-market are indeed more crucial than ever: your organisation needs not only to react quickly to market changes but also to **proactively prepare for the challenges** it is or will soon be facing.
- Thanks to **cloud environments**, your customers, suppliers, and competitors have **access to an almost unlimited number of IT tools, services and capabilities** needed to achieve their digital transformation. Your organization too, must ensure that it does not miss this opportunity to sustain its business success.
- Your organization is undoubtedly challenged to **develop new services or business models** to serve existing or new audiences and to create new revenue streams. Competitors and new entrants will disrupt your business if you do not occupy the territory first.
- **Security threats, privacy regulations and regulatory compliance requirements** - such as GDPR, DORA, Schrems 2, ISO27001 - require your organisation to ensure **full protection of its systems, applications and data**.

WHY A MAINFRAME?

- Mainframe technology has evolved significantly in recent years. While it has always retained a strategic role in the ICT landscape, it is now back in the spotlight—offering the speed, reliability, scalability, and security that organisations need to thrive in today's digital era.
- When integrated with the cloud, the connected mainframe can **process massive amounts of data in record time**, delivering optimal security and real-time cognitive insight.
- **Today's mainframe is open** to the new cloud and development environments that will support the digital transformation of your organisation.
- The mainframe offers **true end-to-end encryption**, near-infinite **scalability** and the **flexibility** to meet rapidly changing IT needs and ambitions.



WHY YOUR **CEO** SHOULD CONSIDER A MAINFRAME

- To capitalize on *legacy* applications while **progressively modernising** them by taking advantage of the **opportunities offered by digital transformation**.
- To **ensure the continuity of your core business while being able to leverage the nearly endless technological possibilities** of new development environments and cloud services.
- To enforce the **digital transformation of your company** by making the most of the opportunities that accompany the new digital reality.
- To **optimise costs and avoid the risks of migration or redevelopment projects**.

WHY YOUR **CIO** SHOULD CONSIDER A MAINFRAME

- **To benefit from a unified and integrated solution.**
Today, the strength of the mainframe lies not only in the security, speed, and robustness for which it is renowned, but also in the agility and adaptability enabled by modern development tools now available on the platform.
- **To recruit and retain the best possible developers.**
Modern mainframes no longer rely on COBOL or PL/I only to operate. They can work with new popular languages and tools like Java, Node.js, Swift, Python, etc. The next generation of developers (the 'millennials') will indeed love working with or on the mainframe.
- To take advantage of the mainframe as a hyper-converged environment that is offering significant **productivity gains** (both in terms of system performance and in terms of the human resources required), rationalising maintenance and ensuring 24x7 availability.
- To rely on **the most secure and protected** environment on the market, as z systems automatically enforce full encryption of all incoming and outgoing data.



WHAT ABOUT YOUR *LEGACY* MAINFRAME APPLICATIONS?

Some organisations are considering - mainly inspired by the decreasing availability of mainframe skills and pessimistic media predictions about the end of the mainframe – replacing their mainframe applications. However, such initiatives remains costly and risky, while the simplest, fastest and most secure solution is to evolve and modernise the existing **mainframe platform**.

You can ensure that your *legacy* applications keep pace with current technological developments:

- As the mainframe has become an 'open' environment, you can enrich your mainframe application environment with Java, Node.js, Swift or other modern technologies.
- You can integrate your mainframe applications with existing (managed) solutions in the cloud.
- You can connect the mainframe to modern mobile and web interfaces, as well as to the Internet of Things (IOT).
- With advanced **deep learning** analytics, you can capitalise on the data stored for many years in your mainframe, extracting insights to optimise your business operations.

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Capitalise on the best of both worlds: modernise your mainframe applications environment and open it up to the world of the cloud.

— Zeina Bouyakhrican,
Head of Mainframe Services NRB

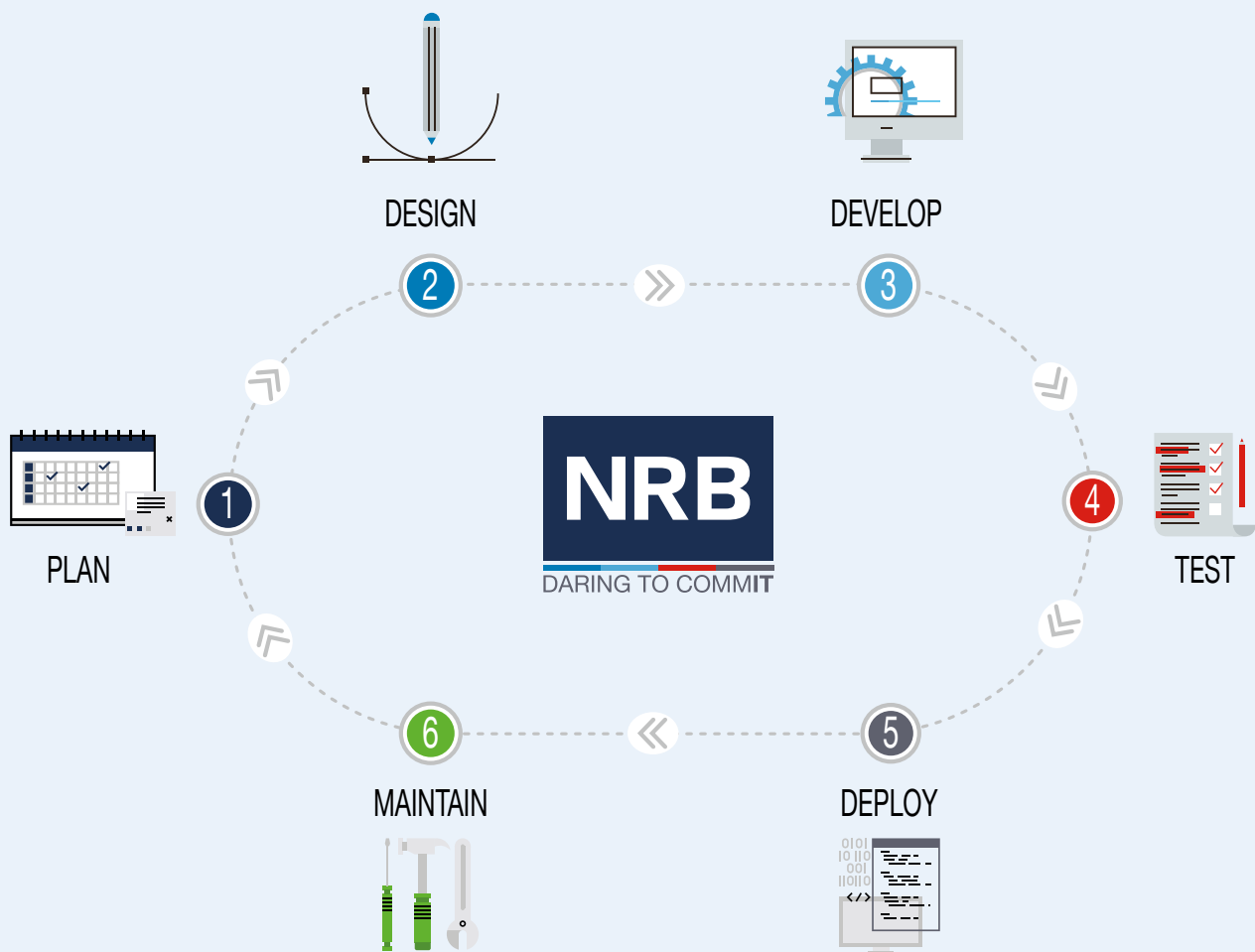


WHY WORK WITH THE NRB GROUP

THE NRB GROUP CAN TAKE CARE OF THE WHOLE LIFECYCLE OF YOUR MAINFRAME AND NON-MAINFRAME APPLICATIONS

TRIGONE, BASED IN PARIS, REPRESENTS THE NRB GROUP IN FRANCE SINCE OCTOBER 2020

- Design, application development, implementation, application management.



THE MAINFRAME APPLICATION DEVELOPMENT EXPERTISE OF NRB IS SECTOR AND BUSINESS INDEPENDENT

- The NRB Group applies best practices in architecture, development methodology, project management and application management.
- The NRB Group's experts can - while mastering these best practices - bring great added value to any organisation or company, whatever its activities.

THE NRB GROUP: A COMPLETE MAINFRAME SERVICES PORTFOLIO

APPLICATION DEVELOPMENT AND MAINTENANCE

We provide comprehensive application development and maintenance services designed to maximise the value of your application portfolio. While we fully support traditional languages such as COBOL and PL/I, maintaining your applications through our proven SDLC methodology and best-in-class tools, our capabilities extend far beyond that. Our offering encompasses modernisation and digital transformation initiatives, reflecting our belief that the mainframe remains a cornerstone of tomorrow's IT landscape.

MODERNISATION

We architected a development framework designed to help you reuse existing applications while expanding towards new horizons.

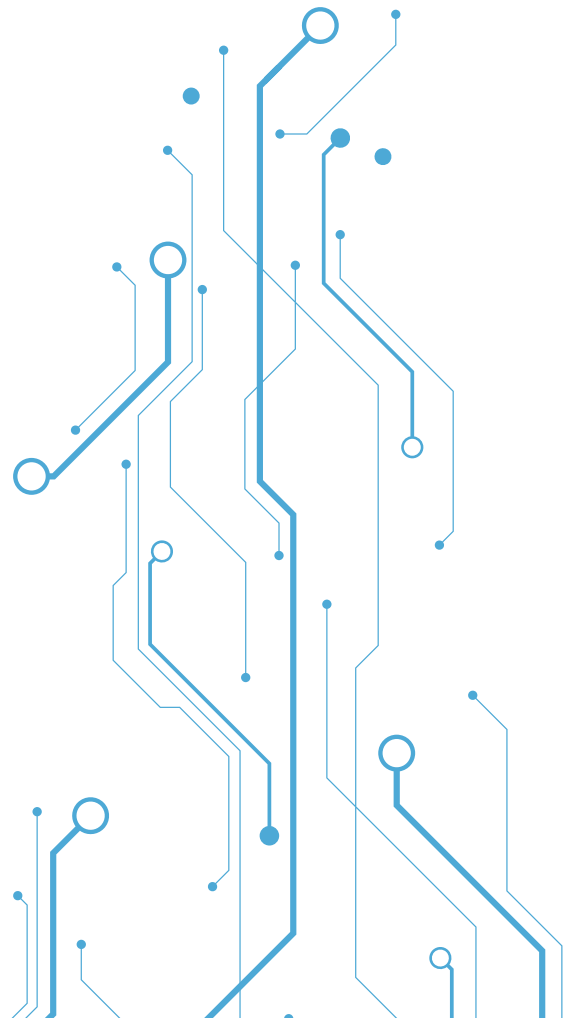
- By decomposing legacy code into independent services, we build an API-driven ecosystem within the z/OS environment—seamlessly accessible from other platforms..
- By externalising business rules, we make the code more adaptable to changing business rules, while improving time-to-market.
- By deploying new languages and methods on the z-system we enable agile development and reduce the maintenance costs.

INNOVATION

Our vision of innovation encompasses advanced concepts in a microservices architectural approach, such as the deployment of machine learning, the deployment of AIOps solutions (via Watson), the use of modern programming languages, and the integration of existing applications through APIs.

CONNECTED MAINFRAME

Integration has become the guiding principle. By bringing data closer to the processes that consume it, we reduce latency and significantly simplify the overall architecture. Connecting the mainframe to the broader IT ecosystem enables seamless interaction and delivers true end-to-end efficiency.



OPERATIONAL SERVICES

We provide operational services tailored to your needs. We can work on the continuity of your application development and maintenance or offer you our services in a stand-alone mode.

Our professional staff will deploy, schedule and monitor state-of-the-art applications.

PRODUCTION MANAGEMENT

We take care of the technical and application management of platforms and networks: remote monitoring and remote management on z/O, x86 systems and cloud platforms.

GOVERNANCE STEERING

We are committed to upholding the highest industry standards and frameworks—particularly in the areas of security and cybersecurity—to ensure the protection and long-term value of your business.

SUPPORT & ADMINISTRATION

Our Support and Administration services offer an answer to the lack of available resources and expertise in the market. They are designed for all types of environments and market sectors. You can rely on rigour and traceability in the management of services, allowing you to improve quality at reduced costs.

Our multilingual Service Desk - available 24/7 - will route all your requests to the appropriate team.

ADVICE & EXPERTISE

We share our experience through specialised consulting services, outsourced and independent expertise at the tactical, technical and technological levels of the company. We help you innovate and transform your IT ecosystem.

INFRASTRUCTURE & HOSTING

We offer a wide range of infrastructure and hosting services covering the common IaaS and PaaS business models and beyond. From hardware resource allocation to database administration, we provide you with the products, the support and the guidance of highly skilled specialists in each field of application.

We continuously maintain our shared mainframe infrastructure at the latest technological level, allowing you to benefit from all improvements brought by last-generation hardware.

Optimal capacity management is one of our prime objectives. By providing you with flexible resources, we will let you reduce your operating costs and leverage the exact power you need to fulfil your critical business requirements.

SEAMLESS MIGRATION

Our migration methodology relies on proven best practices that have passed the test of several major client projects. Leveraging specialised equipment and advanced virtualisation techniques, we ensure seamless data and environment migrations with minimal impact on your business operations—delivered on time and within budget.

NRB IS THE #1 MAINFRAME SERVICE PROVIDER IN BELGIUM!

OVER 30 YEARS OF MAINFRAME EXPERIENCE

NRB was founded in the 1980s as a **shared mainframe infrastructure and service centre**.

Since then, NRB has been providing **mainframe** services - **infrastructure and development** - **mainly on the IBM platform** that has a capacity of over **60,000 MIPS** in a **z16** configuration.

NRB's mainframe service center has become a **leader** in its field.

Moreover, thanks to the arrival of **Trigone** in the group, the NRB Group's mainframe service centre is still increasing its leading position in the mainframe field.

STATE-OF-THE-ART GEO-RESILIENT DATA CENTRES

NRB has an exceptional data centre infrastructure that meets the requirements of Tier 3+ (Uptime Institute): two state-of-the-art georesilient sites connected via **Dark Fibre**. The main site in Herstal, near Liège, consists of three data centres in separate buildings. The secondary site is located in Villers-le-Bouillet, only 30 km from the other data centre. All systems are **fully redundant** with automatic **switch-over**.

This configuration allows NRB to provide **the highest level of disaster recovery capabilities in Belgium**:

- Recovery Point Objective (RPO) = 0 hours
- Recovery Time Objective (RTO) = 2 hours

300+ MAINFRAME SPECIALISTS

With over 300 mainframe specialists, the NRB Group is able to provide complete **operational management** as well as **development and maintenance** of mainframe applications in Western Europe:

- 90 mainframe infrastructure specialists are responsible for operational management at various levels: operations, engineering, service management, etc.
- 180 mainframe application specialists ensure the development and maintenance of applications: developers (COBOL, PL1, Java), application managers, project managers or quality assurance managers.

NRB is the leading mainframe supplier in Belgium and has the ambition, thanks to Trigone, to establish itself in France and Western Europe.

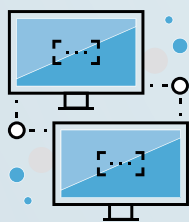
NEW MAINFRAME TALENT AT YOUR DISPOSAL

Faced with a shortage of young talent that has experience with mainframe technologies, the NRB Group has created the «Mainframe Academy»: an in-house training program that allows senior staff to take on the role of coach for several months to accompany the new generation of IT specialists.

This is an educational role taken to heart by NRB since several of its experts regularly give training courses dedicated to the mainframe to various students from graduate school and universities.

This ensures the continuity of mainframe know-how for new generations.

KEY FIGURES NRB MAINFRAME CENTRE



3.5 billion
of transactions per year



22.000 active users
at our customers and many more
at our customers' customers



60.000 zSeries
MIPS of installed capacity

FOUR SERVICE MODELS OFFERED BY NRB

RESPONSIBILITY	IAAS	PAAS	PAAS+	PAAS++
APPLICATION DEVELOPMENT	CUSTOMER	CUSTOMER	CUSTOMER	NRB
APPLICATION DEPLOYMENT & OPERATIONS	CUSTOMER	CUSTOMER	TRIGONE / NRB	TRIGONE / NRB
SYSTEM MAINTENANCE & OPERATIONS	CUSTOMER	TRIGONE / NRB	TRIGONE / NRB	TRIGONE / NRB
HARDWARE ALLOCATION & MANAGEMENT	NRB	NRB	NRB	NRB



1 10 1001 01010110

CONTACT

MAINFRAME@NRB.BE

INFO@TRIGONE.FR



www.nrb.be
www.trigone.fr



www.linkedin.com/company/nrb



www.facebook.com/daringtocommit



www.youtube.com/@daringtocommit

NRB S.A. / nv Parc Industriel des Hauts-Sarts - 2^e Avenue 65 - 4040 Herstal | Boulevard Bischoffsheim, 15 - 1000 Bruxelles / Brussel



info@nrb.be



+32 (0)4 249 72 11

Trigone SAS 3, Place Aimé Césaire - 93100 Montreuil, France



info@trigone.fr



+33 (0)1 44 93 21 50

THE **NRB** GROUP



FS 706532 EMS 796353 ITMS 749989 IS 706533



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