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Autoroutes

Media-as-a-Service

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DRIVING THE FUTURE OF MEDIA

A Conversation with Sylvain Merle, CTO of BCE,
and Frédéric Fiévez, COO of BCE



In 2024, BCE reaffirmed its position as a leader in media innovation, showcasing cutting-edge solutions that are shaping the future of broadcasting. As the industry moves toward cloud-based, AI-driven, and highly flexible workflows, BCE is at the forefront, offering Media-as-a-Service (MaaS) to streamline content creation, management, and distribution.

In this exclusive interview, we sit down with **Sylvain Merle, Chief Technology Officer (CTO) of BCE**, and **Frederic Fievez, Chief Operating Officer (COO) of BCE**, to discuss their latest innovations, key industry trends, and the company's vision for the future.

From cloud playout solutions to advanced remote voice-over capabilities, BCE is redefining how media companies operate in a fast-evolving digital landscape.

Q: BCE has positioned itself as a leader in media and broadcast innovation. Sylvain, how do you see BCE's role in the industry today?

Sylvain Merle (CTO): BCE is an innovation hub transforming the media industry. With expertise across the entire media workflow—from content creation to multi-platform distribution—we leverage cutting-edge technologies like cloud infrastructure, IP workflows, and AI to stay ahead of evolving trends.

Our robust internal security skills ensure resilience in operations, while a strong data and AI strategy drives our technology roadmap, enabling innovative solutions that redefine content creation and consumption. Sustainability is central, with a commitment to carbon neutrality by 2030, positioning BCE as a leader in media innovation.

Q: Frédéric, from an operational perspective, how is BCE adapting to these industry changes?

Frédéric Fiévez (COO): Operationally, we are making significant strides in flexibility and efficiency. One of our major innovations is Media-as-a-Service (MaaS), a cloud-driven platform that provides broadcasters with on-demand media solutions.

This model eliminates the need for heavy technical investments and offers a scalable, user-friendly interface. The infrastructure is built on a hybrid public and private cloud (BCE) to address sovereignty needs of our customers. A great example of this is Holovox, our remote

commentary service, which we recently implemented for the Basketball Champions League (BCL).

It allows commentators to work from anywhere, while we handle all the technical aspects, from signal reception to global distribution, while media and archives of produced content are stored safely in our ISO 27001-certified datacentre.

Additionally, Holovox provides live translation, graphic layer management, and team coordination, making it an invaluable tool for live sports, news, and event coverage.

Q: Speaking of innovation, BCE recently showcased its latest technologies at IBC 2024. What were the highlights?

Sylvain Merle: IBC was a fantastic opportunity to present a sneak preview of what Media-as-a-Service will become in 2025.

We provided insights into how broadcasters will be able to build end-to-end workflows through a single platform, selecting the services they need.

While the MaaS platform was a preview, our solutions—Holovox, Playit, Freecaster, and NxP—were presented with full demos, as they are already widely used.

For example, Playit, our cloud playout service, is already deployed by RTL Hungary, and Freecaster has been adopted by major players in the fashion and sports industries.



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#Innovation #Caring
respect #Fairness





“Our Holovox solution enables up to 18 commentators to provide live coverage from different locations, ensuring high-quality, synchronized audio.”

Frédéric Fiévez, COO of BCE.

Q: Frédéric, can you tell us more about BCE's collaboration with the Basketball Champions League?

M Absolutely.

The Basketball Champions League needed a streamlined remote commentary and distribution solution, which led them to select BCE as their sole provider.

Our Holovox solution enables up to 18 commentators to provide live coverage from different locations, ensuring high-quality, synchronized audio. Additionally, we manage the complete signal workflow—from satellite downlink to streaming distribution across seven broadcasters in Europe, Asia, and the U.S.

This partnership underscores BCE's ability to provide comprehensive, turnkey solutions for major sports events.

Q: Sylvain, data-driven workflows are becoming increasingly important. How is BCE leveraging data and AI?

M Data is one of the most valuable assets in the modern media landscape. We generate and process vast amounts of data daily, and we have engaged a global strategy on data management using AI to extract meaningful insights that enhance content delivery and decision-making.

AI helps us automate workflows, optimize media management, and provide predictive analytics for playout and audience engagement. Our focus is on creating intelligent, data-driven ecosystems that

empower broadcasters to make real-time, informed decisions.

Q: BCE has also been involved in high-profile live streaming projects. Frédéric, can you share some recent success stories?

M Our Freecaster platform, which is part of Media-as-a-Service, has been instrumental in delivering premium live streaming experiences.

In January 2025, we live-streamed fashion shows for Louis Vuitton, Hermès, and Sacai, reaching millions of viewers across multiple platforms.

Another major milestone was our collaboration with Chanel in China, where our cloud-hosted infrastructure in Hong Kong supported a flawless stream to over 83 million viewers. These projects highlight our capability to deliver high-quality, scalable streaming solutions worldwide.

Freecaster also enhances engagement with features like instant replay, multi-angle views, and seamless integration with social media platforms.

Q: Looking ahead, what are BCE's key priorities for the future?

M Our priorities remain centered on cloud-first solutions, AI integration, advanced orchestration, and sustainability. We are focused on building cross-expertise between infrastructure and software design to ensure we stay at the forefront of technological advancements.

Additionally, we are expanding our Network Operations Center (NOC) capabilities, ensuring we can support increasingly complex media workflows.

M From an operational standpoint, we are committed to making our services more accessible and efficient.

We're refining our SaaS offerings to give broadcasters greater control over their workflows while maintaining top-tier service quality. With our expertise in cloud, IP workflows, and AI-driven automation, we're well-positioned to shape the future of broadcasting.

Q: Any final thoughts on BCE's role in the evolving media landscape?

M The media industry is undergoing a rapid transformation, and BCE is at the forefront of this evolution. By embracing innovation and focusing on sustainability, we're not just adapting to change—we're driving it.

M Our mission is to make media services as accessible as streaming your favourite music. We're committed to empowering our clients with cutting-edge technology, ensuring they can focus on what matters most—creating and delivering great content. ■





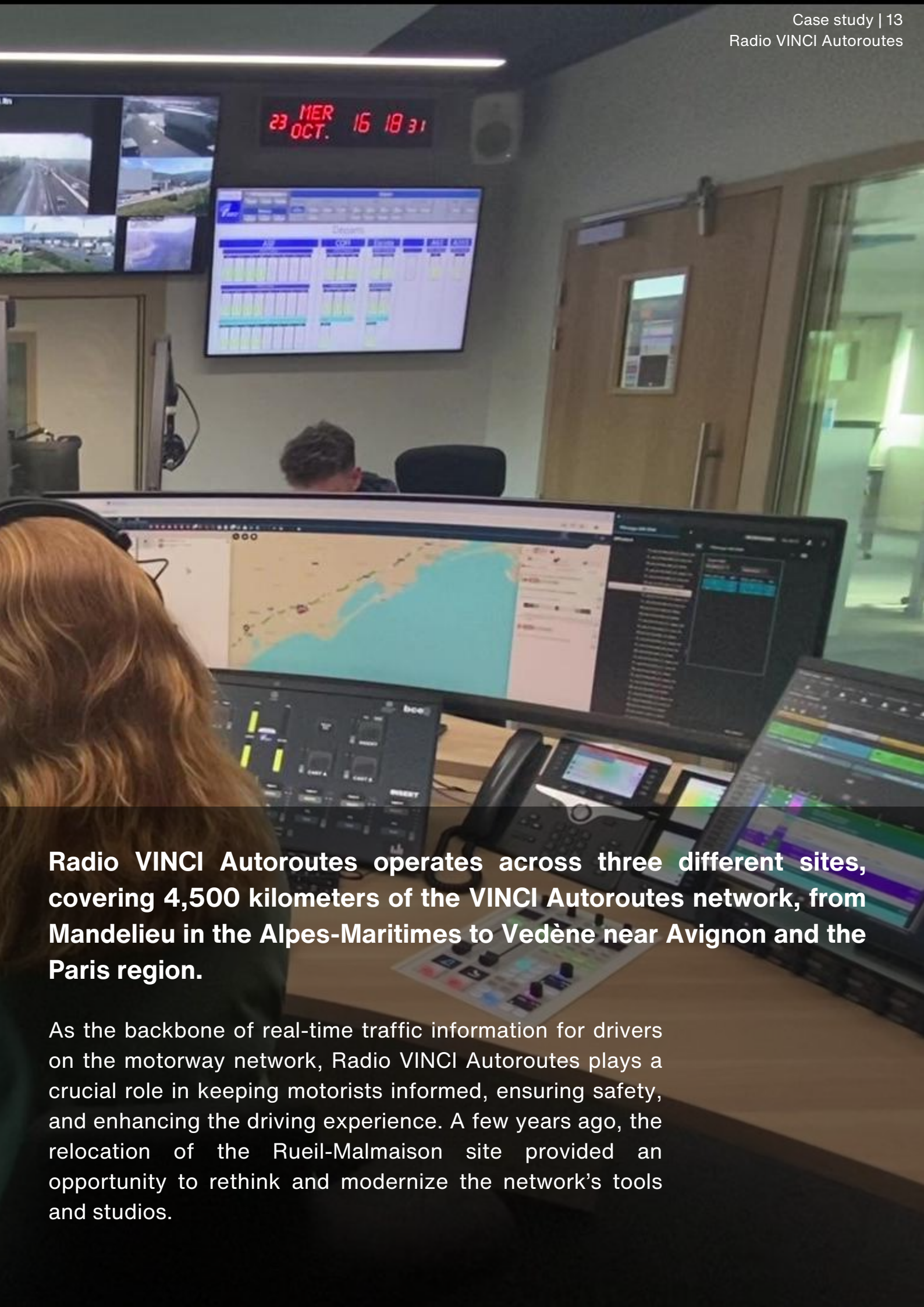
“By embracing innovation and focusing on sustainability, we’re not just adapting to change—we’re driving it.”

Sylvain Merle, CTO of BCE.



INNOVATION IN MOTION

Modernizing a multi-site radio network
Radio VINCI Autoroutes



Radio VINCI Autoroutes operates across three different sites, covering 4,500 kilometers of the VINCI Autoroutes network, from Mandelieu in the Alpes-Maritimes to Vedène near Avignon and the Paris region.

As the backbone of real-time traffic information for drivers on the motorway network, Radio VINCI Autoroutes plays a crucial role in keeping motorists informed, ensuring safety, and enhancing the driving experience. A few years ago, the relocation of the Rueil-Malmaison site provided an opportunity to rethink and modernize the network's tools and studios.



"A few years ago, our site in Rueil-Malmaison was relocated, and we took advantage of this move to completely rethink our tools and modernize our studios.

This change first took place at the Nanterre site, which was inaugurated at the end of 2021 with brand-new studios."

Benjamin Sirvent, Journalist at Radio VINCI Auto

This transformation began with the Nanterre site, which was inaugurated with brand-new studios in late 2021. The modernization continued at the Vedène site, which has also recently been upgraded with state-of-the-art broadcasting facilities.

These advancements mark a significant turning point in the history of Radio VINCI Autoroutes, ensuring a more efficient, flexible, and technologically advanced broadcasting environment.

Upgrading the network infrastructure

One of the major challenges during this transformation was updating the network headends, the critical points where audio signals are injected before reaching FM transmitters.

The Radio VINCI Autoroutes network relies on eight transmission sites, interconnected via an MPLS network that facilitates IP-based audio transmission.

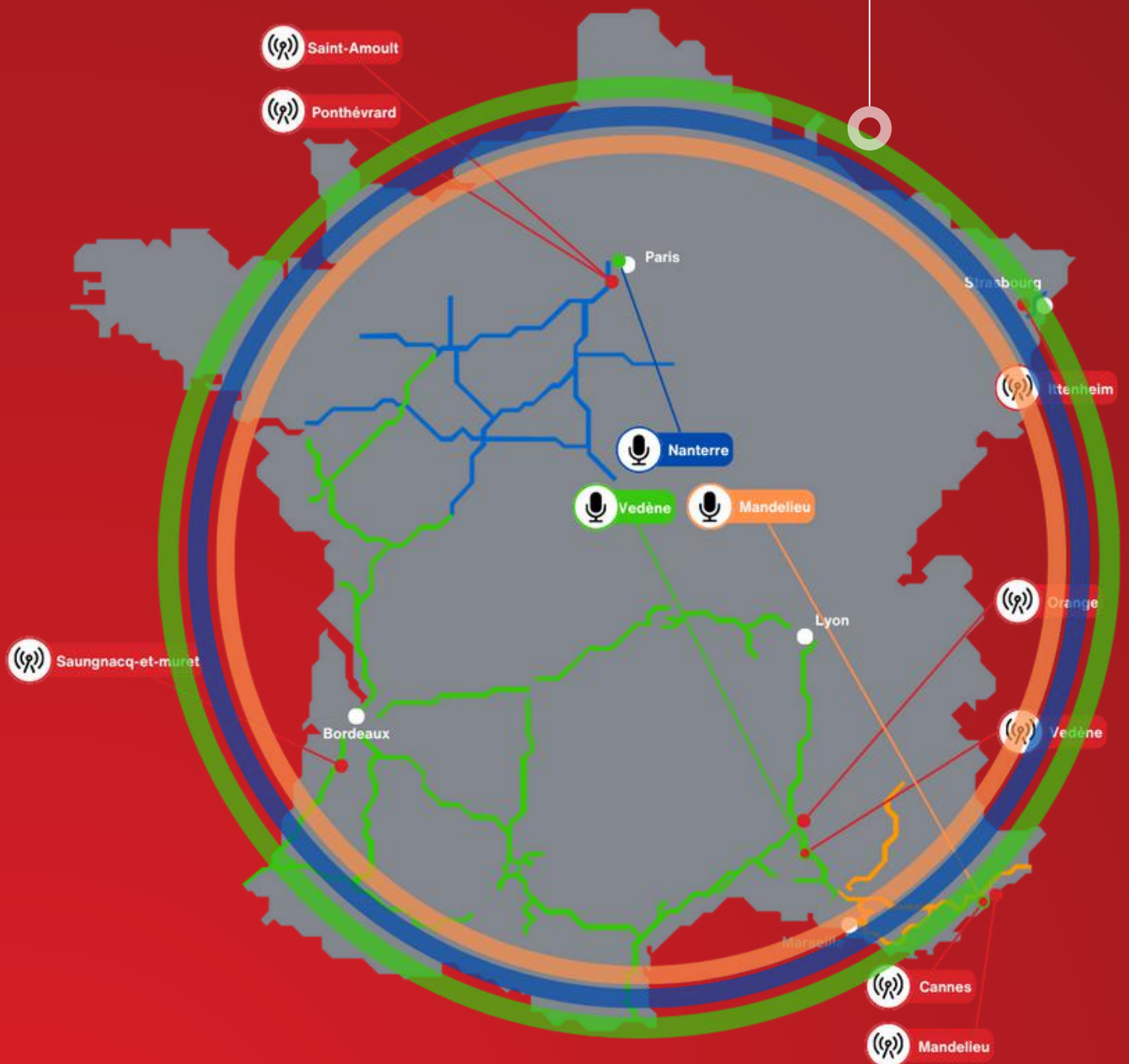
The goal was to ensure seamless connectivity between these sites and enhance overall signal stability and reliability.

Integration of advanced technologies

To achieve this, Radio VINCI Autoroutes partnered with BCE, a leader in broadcast technology integration, to support this crucial phase of modernization. The first step involved enhancing network connectivity at the headends to

integrate with the newly deployed systems. In addition, the entire audio signal processing chain was modernized with advanced equipment designed for signal detection, processing, and security, ensuring the highest levels of stability and reliability.

These upgrades allow for instantaneous switching between sites without any disruption for listeners, a crucial aspect of providing uninterrupted service across the vast motorway network.





A tailor-made user interface for seamless operation

A standout feature of this transformation is the new custom-designed Human-Machine Interface (HMI) developed specifically for Radio VINCI Autoroutes. The HMI aggregates external events and integrates them directly into the console system, creating a seamless and user-friendly experience for journalists and radio operators.

The intuitive interface allows journalists to effortlessly manage traffic updates, host programs, and coordinate live broadcasts, all while ensuring smooth transitions between different segments.

Streamlined operations across sites

A defining aspect of the workflow at Radio VINCI Autoroutes is its

all-in-one approach. Journalists must simultaneously handle traffic reports, live hosting, and program management, all within the same interface.

The modernization project introduced tools that make this process more efficient, enabling better time management and improved accuracy in delivering critical information to drivers.

A key tool in this transformation is **Cockpit**, developed by VINCI Autoroutes.

This tool enables real-time traffic monitoring for the broadcast zone, allowing journalists to instantly access relevant traffic data and comply with Radio VINCI Autoroutes' commitment to delivering urgent information within four minutes.

“The uniqueness of this system lies in the custom-designed setup, which incorporates external event aggregation and an external system to the console, ensuring the most seamless and user-friendly experience.

At Radio VINCI Autoroutes, the journalists are responsible for managing traffic updates, hosting, and continuously building and deconstructing their entire program to accommodate live traffic reports.”

Guilhem Chabart, Project Engineer at BCE.





Cockpit ensures that drivers receive real-time updates on road conditions, hazards, and emergency situations, enhancing safety and providing invaluable assistance during their journey.

Enhanced monitoring and control

To further optimize operations, the Virtual Studio Manager (VSM) interface was implemented. VSM provides real-time monitoring of site operations, allowing for rapid identification of which studio is covering which zone.

This tool is essential for coordinating broadcasts across multiple locations, ensuring consistency in programming and facilitating seamless transitions between studios.

Additionally, behind the user-friendly interfaces lies a sophisticated system of audio routing scripts, dynamic displays, and data feedback loops.

These technological advancements ensure a homogeneous broadcast experience across all studios, regardless of their geographical location. Thanks to the HMI, any studio can now broadcast to any sector, providing unprecedented operational flexibility.

A radical shift in the way we work

The new system also brings a dramatic improvement in user experience. The first task a journalist performs upon entering the studio is selecting their broadcasting zones.



The touchscreen interface allows them to make their selections in just a few clicks, using presets tailored to their broadcast slot.

In cases of specific incidents on the highway, they can intervene in real time on the affected section while keeping the music playing for other areas, minimizing disruption to the overall program.

This feature helps prevent secondary accidents by ensuring that drivers receive timely and relevant information when it matters most.

Today, all the new tools at Radio VINCI Autoroutes—whether for transmitter management, radio coordination, touchscreen interfaces, or phone inserts—are fully

operational and have become essential for daily broadcasts.

The modernization has revolutionized the way journalists and broadcasters work, providing them with greater flexibility, efficiency, and reliability in their operations.

Looking ahead: the future of Radio VINCI Autoroutes

The impact of these upgrades is already evident in the Nanterre and Vedène sites, both of which are now equipped with cutting-edge broadcasting tools.

The next milestone in this ambitious transformation is the modernization of the Mandelieu site, which will complete the network-wide upgrade and bring all

three sites to the same high standard of technological excellence.

With these advancements, Radio VINCI Autoroutes is not just keeping pace with industry trends but setting new standards in radio broadcasting.

By leveraging the latest in IP-based transmission, advanced monitoring tools, and user-centric interfaces,

the network is ensuring that it remains at the forefront of real-time traffic information broadcasting.

This transformation underscores its commitment to innovation, efficiency, and, most importantly, the safety and convenience of motorway users.

As Radio VINCI Autoroutes continues its journey of innovation, the future promises even greater possibilities for improving how traffic information is delivered and how motorists experience the road. This modernization project is more than just an upgrade—it is a redefinition of what it means to be a dynamic, responsive, and future-ready broadcaster in the digital age. ■

Monitoring





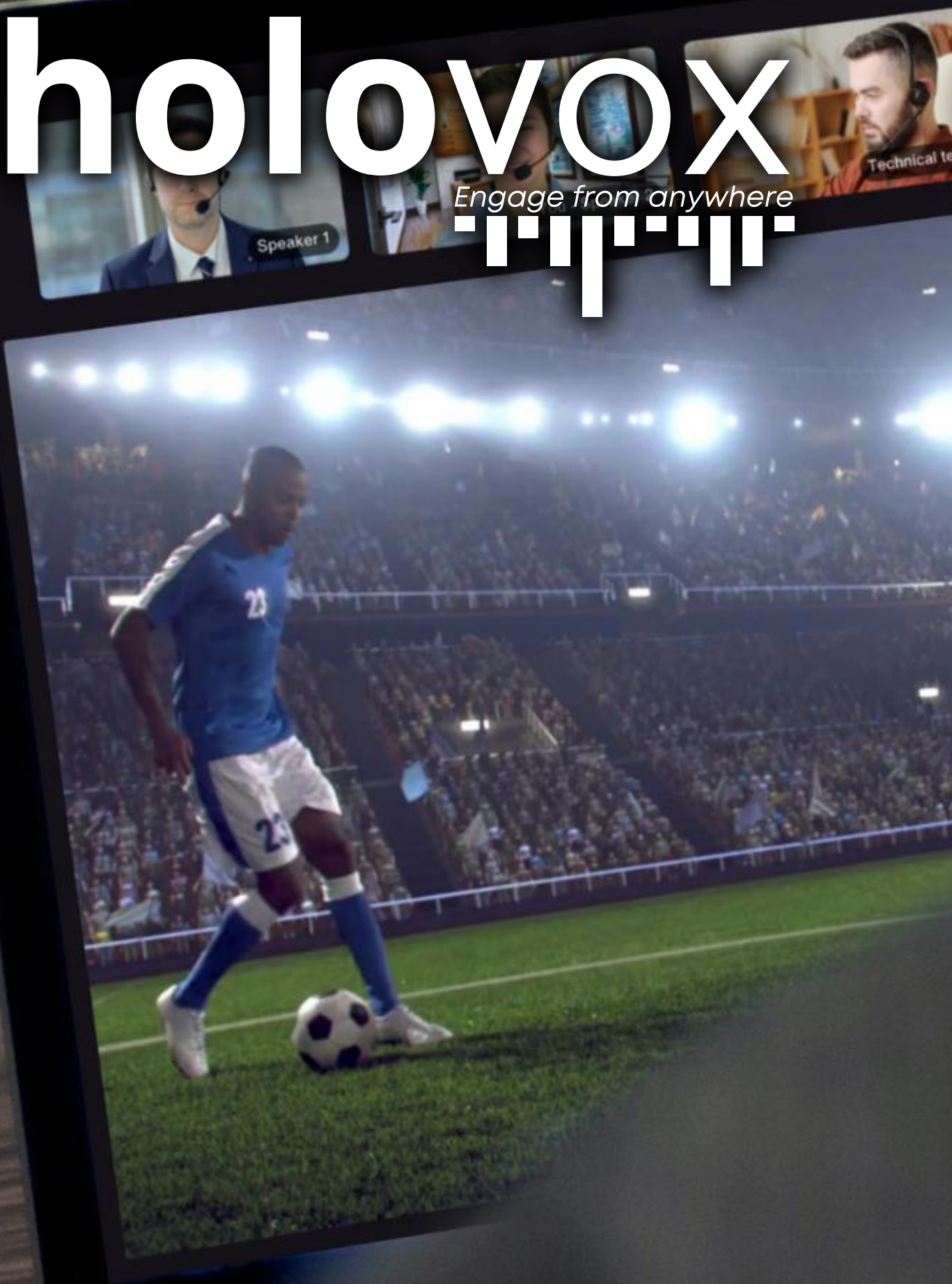
Video Case Study:

BCE and Radio VINCI Autoroutes

Learn how BCE transformed traffic broadcasting for Radio VINCI Autoroutes through exclusive interviews with Benjamin Sirvent, Guilhem Chabart, and Cédric By.

holovox

Engage from anywhere



Holovox: remote voice-over reinvented with Media-as-a-Service

In today's fast-paced media landscape, broadcasters and content producers are constantly seeking innovative ways to enhance live productions, extend their reach, and engage audiences more effectively. BCE's Holovox, part of its Media-as-a-Service (MaaS) portfolio, introduces a groundbreaking cloud-based remote voice-over solution that empowers commentators, broadcasters, and event coordinators to produce high-quality live events with ease — from virtually anywhere in the world.

A new era for live event voice-over

Holovox was designed to address the growing demand for flexibility and scalability in live event production, particularly for sports broadcasting.

Whether it's sports, esports, conferences, live streams, Holovox enables content producers to enrich their live feeds with dynamic, multi-language commentaries, seamless graphic overlays, and team coordination — all managed through a simple web interface.

Gone are the days of expensive on-site deployments and logistical complexities. With Holovox, commentators, coordinators, and technical teams can work together remotely, ensuring professional-quality coverage without compromising on production value.

Core capabilities: flexible, intuitive, professional

Cloud-based, anywhere access

Holovox is entirely cloud-based, meaning all you need is a computer, webcam, microphone, and headphones — no specialized equipment required. Sportscasters can commentate live events from home, the office, or even on the go, ensuring total flexibility.

Multi-language voice-over

Whether for international audiences or multilingual territories, Holovox allows multiple commentators in different languages to simultaneously add their voice-over feeds to a single live event, expanding audience reach and accessibility.



Integrated graphics and video control

Holovox goes far beyond simple voice-over.

Through the integrated remote control interface, coordinators and commentators can easily insert pre-configured graphics, on-screen titles, logos, and pre-recorded videos directly into the live feed.

From pre-match build-ups to halftime analysis or sponsor branding, all elements can be triggered live — with zero technical complexity.

Team coordination and supervision

Every live production involves close coordination between commentators, producers, and technical teams. With Holovox, coordinators have a dedicated supervisor interface, providing a real-time

overview of all ongoing events and commentator activity. They can easily manage commentator access, provide technical support, and oversee the entire production.

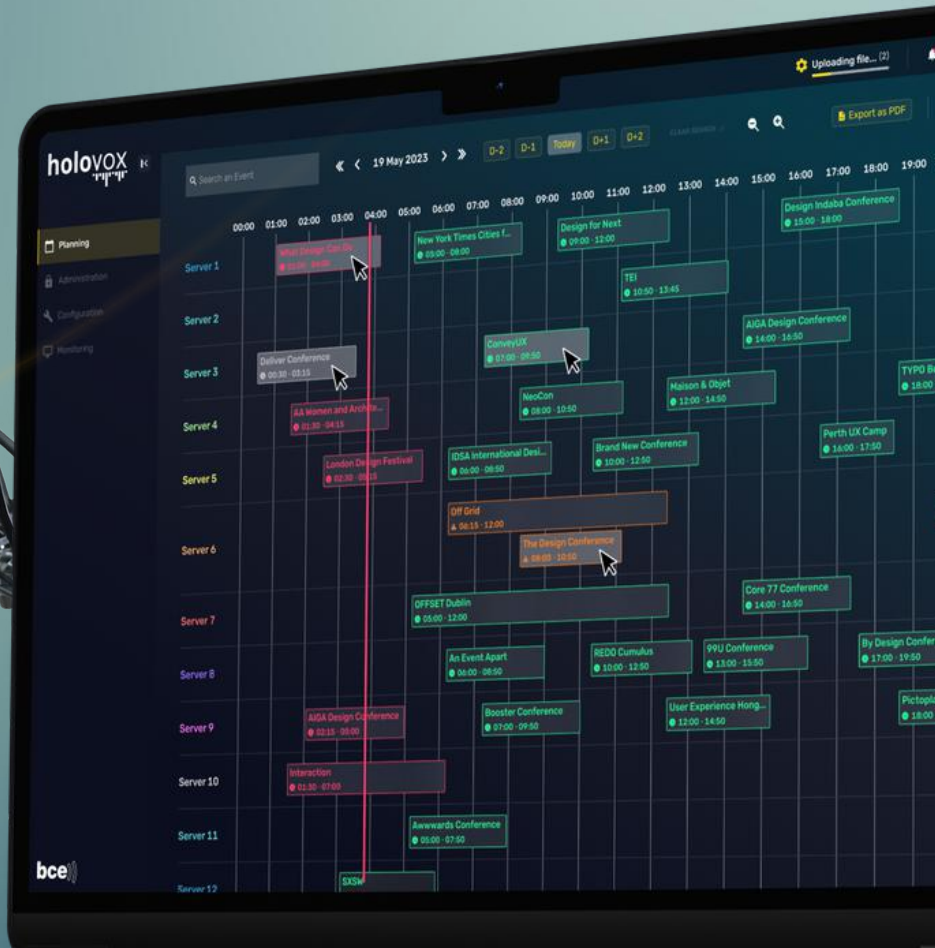
Experiences tailored to every role

For administrators: full control and seamless planning

Holovox offers a centralized hub for administrators to manage users, events, and technical configurations.

From creating and assigning events to configuring streaming destinations, the platform offers a clear, intuitive interface designed for quick event setup and flexible oversight.

Pre-event graphics, post-event branding, and multi-destination



output (RTMP, SRT) can all be handled directly within Hologvox, eliminating the need for additional tools.

Administrators also gain full control over user management, defining roles from coordinators to commentators, ensuring the right people have access to the right tools at the right time.

For coordinators: Real-time supervision and control

Event coordinators are the linchpin of live production, and Hologvox provides them with the tools to succeed.

Through a single dashboard, coordinators can:

- Oversee all scheduled events across a clear calendar view.
- Assign commentators to events, set technical parameters, and manage multi-language feeds.

- Monitor live events in progress and step in whenever technical support is needed.
- Control graphics, overlays, and event branding directly through the Hologvox interface.

The ability to intervene instantly if a commentator experiences connection issues, or if a graphic needs to be swapped, ensures smooth production flow — all from any location.

For sportscasters & commentators: A frictionless experience

For commentators and sportscasters, Hologvox is designed to be as simple and intuitive as possible.

Upon logging in, they are greeted with a personalized dashboard showing all assigned events, complete with event details, times, and direct access to the live stream.

With a single click, they can join their live event, access live video feeds, and begin commenting immediately.

Audio and video tests ensure everything is working properly before going live.

The remote-control interface — designed specifically for non-technical users — allows commentators to:

- Manage their audio levels.
- Switch between pre-live, live, and post-live graphics.
- Trigger pre-loaded videos (like halftime packages).

- Control on-screen presenter names and Picture-in-Picture views.

This intuitive approach ensures sportscasters can focus entirely on their commentary, without having to worry about the underlying technology.

A reliable backbone for every event

To guarantee the smoothest experience, every event powered by Holovox benefits from BCE's 24/7 Network Operations Centre





(NOC). The NOC team monitors every live production in real time, providing immediate support and ensuring signal integrity from source to distribution.

From downlinking live feeds via BCE's teleport facilities to

multi-platform distribution through a robust CDN, Holovox integrates seamlessly into BCE's full-service ecosystem, ensuring world-class delivery for every production.



Contact Noelle
for more info

With over 20 years of experience as both a media operator and integrator, BCE understands the evolving demands of broadcasters and content creators. Holovox was built not just for today's live production needs, but to scale effortlessly into the future, accommodating new formats, languages, and production styles as the industry evolves.

Whether you're a national broadcaster looking to expand your multi-language coverage, a sports league creating more accessible content, or an independent content creator adding professional polish to live events, Holovox empowers you to do more — from anywhere in the world. ■



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In 2000, Broadcasting Center Europe (BCE) was born out of the merger of multiple technical entities within CLT, marking the beginning of an ambitious journey. This strategic move not only streamlined RTL Group's technical operations but also expanded BCE's engineering expertise to external markets. With its formation, BCE positioned itself as a key player in the broadcast and media technology industry, offering cutting-edge solutions to clients worldwide.

A legacy of innovation and expansion

Before BCE's official establishment, its engineering teams played a crucial role in launching several high-profile media channels across Europe.

RTL Plus in Germany (1984), M6 in France (1987), RTL TVI in Belgium, and RTL Veronique in the Netherlands (1989) were among the pioneering projects that laid the foundation for BCE's technical excellence.

As the media landscape evolved, BCE continued its trajectory of success, rebranding RTL Veronique to RTL 4, launching RTL 9 in France, and supporting the creation of Super RTL in Germany.

The early 2000s marked a transformative period, during which BCE modernized RTL Group's infrastructure by transitioning to tapeless systems. Beyond RTL, BCE extended its expertise to non-media sectors, undertaking projects for institutions such as Eurocontrol and ArcelorMittal.



RTL Televizija
Main control room
(2007)

Expanding its footprint internationally, BCE was instrumental in launching RTL Televizija in Croatia, developing multimedia facilities for the European Council, and setting up production systems for reality shows like Big Brother in Bulgaria.

**The 2010s:
a decade of global expansion**

Building on its established reputation, BCE entered a period of extensive international collaboration. One of its notable endeavors was assisting Arte France in transitioning to an HD, file-based environment. This comprehensive project involved reconfiguring production and broadcasting units, ensuring seamless integration of multilingual audio tracks, and optimizing workflow efficiency. Similarly, BCE took on large-scale assignments with SNRT in Morocco, Viasat in Latvia, and Ethiopia's national broadcaster, further solidifying its presence in diverse markets.

BCE's role in digitizing the Council of Europe's archives and upgrading RTL Group's broadcasting infrastructure in Hungary showcased its ability to handle complex archival and broadcasting projects.

These initiatives reinforced BCE's position as a leading integrator of advanced media solutions, capable of preserving historical content while embracing the latest technological advancements.

A decade of achievements in France

As BCE celebrated its 10th anniversary in France, it reflected on a decade marked by groundbreaking projects, unwavering client trust, and deep-rooted human relationships. Philippe Mauduit, President of BCE, and Mikael Gaignic, Project Manager, highlighted how BCE's commitment to understanding client needs has been a key factor in fostering long-term partnerships.



BCE's journey in France began in 2013 with the Fédération Française de Tennis, where it undertook the digitization of archives, setting the stage for future projects in sports and media.

The transformation of Arenberg, a UNESCO World Heritage Site, into a hub for cinema and audiovisual excellence exemplified BCE's ability to merge technology with cultural heritage.

Technological advancements and large-scale integration

Between 2018 and 2019, BCE played a crucial role in equipping the Lycée Henri Martin with cutting-edge audiovisual technology, creating an IP-based architecture for direct media access. This investment in education highlighted BCE's commitment to empowering future professionals in the media industry.

“Back in 2014, our team took on its very first project when BCE was selected to integrate some incredible facilities—the DEVISU lab for visual and urban design, the ANNAUD platform with motion control and an HD TV studio, the LEAUD experimental theater with a 4K projector, and a dedicated storage and maintenance area. A huge milestone for us!”

Explains Philippe Mauduit, President of BCE in France.

Similarly, its collaboration with the Assemblée Nationale, upgrading audiovisual nodal points and transitioning to HD 16/9, showcased BCE's dedication to innovation and modernization.

From supporting TF1 in integrating new sets for their Journal Télévisé to developing HD control rooms and studios for Radio France, BCE continued to push the boundaries of media technology.

Additionally, its work with RTL, RTL2, and Fun Radio in Neuilly-sur-Seine, as well as the design of a high-tech reporting motorcycle for RTL, demonstrated its forward-thinking approach to mobile broadcasting.

At the same time, BCE partnered with Radio France to transition its infrastructure to full IP technology, a groundbreaking initiative in the European media sector.

This project underscored BCE's expertise in integrating IT and media broadcast domains, delivering seamless and high-standard production facilities.

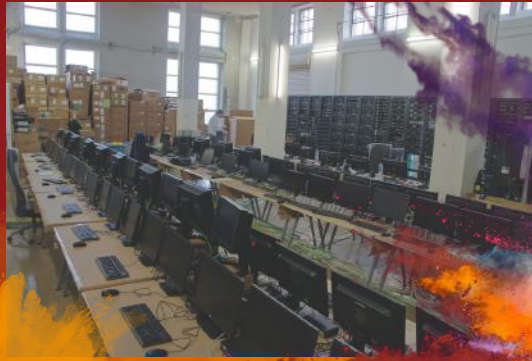
Supporting major broadcasting events

In 2020-2021, BCE took on a prestigious project for France Télévisions, supplying two state-of-the-art outside broadcast vans (UM1 and UM2) equipped with IP technology.

Kirchberg Conference Centre



Ethiopian Broadcasting Centre integration



Arte



MTG



These mobile units were designed to handle large-scale events, with UM3 playing a pivotal role in broadcasting the 2024 Olympic Games from the Trocadéro rooftop studio.

BCE's ability to provide adaptable and high-performance solutions for live coverage reaffirmed its standing as an industry leader.

Transforming the media landscape

By 2023, BCE had extended its reach to Figaro TV, overseeing the installation of five studios and advanced technical facilities at their new headquarters.

This project aimed to redefine Figaro TV's media ecosystem, equipping it with cutting-edge

production and playout capabilities. BCE's work ensured the channel was future-ready, embracing 4K technology and high self-production capacities.

Expanding innovation with Radio Vinci

In 2024, BCE collaborated with Radio Vinci to implement a state-of-the-art broadcasting and production system, enhancing the station's ability to deliver high-quality audio content seamlessly.

This project involved integrating advanced digital workflows, improving connectivity between studios, and ensuring a smooth transition to next-generation broadcasting technologies.

RTS



France Télévisions / La fabrique france.tv



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Radio VINCI Autoroutes



Le Figaro TV

BCE's expertise in IP-based solutions and automation played a critical role in optimizing Radio Vinci's operational efficiency, reinforcing its commitment to providing top-tier media services.

A vision for the future

As BCE continues to build on its legacy, trust remains at the core of its operations. The company's ability to foster strong relationships with clients, understand their unique challenges, and deliver tailored solutions sets it apart.

With an unwavering commitment to technological innovation and client satisfaction, BCE is poised to navigate the evolving media landscape and drive the industry forward.

Looking ahead, BCE remains dedicated to pioneering new solutions, embracing emerging technologies, and further strengthening its position as a global leader in broadcast and media integration. The next decade promises even greater achievements, fueled by its passion for excellence and a relentless pursuit of innovation. ■

4K Studio



INSTITUT NATIONAL DE L'AUDIOVISUEL (INA)
**ADVANCED
SCALABILITY
IN 4K**

BCE is proud to announce the official inauguration of "Studio 204," INA's first 4K studio. By combining innovation with technical excellence, BCE has helped INA achieve a crucial milestone in its modernization efforts.

BCE has successfully completed a major project with the Institut National de l'Audiovisuel (INA), marking a significant step forward in audiovisual technology. Launched in February 2024, the project reached its production phase in mid-June and is now in production.

This collaboration is a key part of INA's broader modernization initiative, which aims to enhance its production capabilities and provide state-of-the-art resources for both professionals and students.

INA, established in 1975, plays a crucial role in preserving and sharing France's television, radio, and digital heritage. Faced with the rapid evolution of the audiovisual industry, INA recognized the need to invest in cutting-edge infrastructure, making BCE the ideal partner for this transformation.

To bring this vision to life, INA relied on BCE, a strategic technology provider known for its expertise in media and broadcasting solutions. Leveraging its deep industry knowledge, BCE developed a customized solution that seamlessly integrated into INA's existing framework, offering comprehensive project support at every stage.

A carefully executed project

The project followed a structured and efficient execution plan, beginning with an in-depth study over one and a half months.

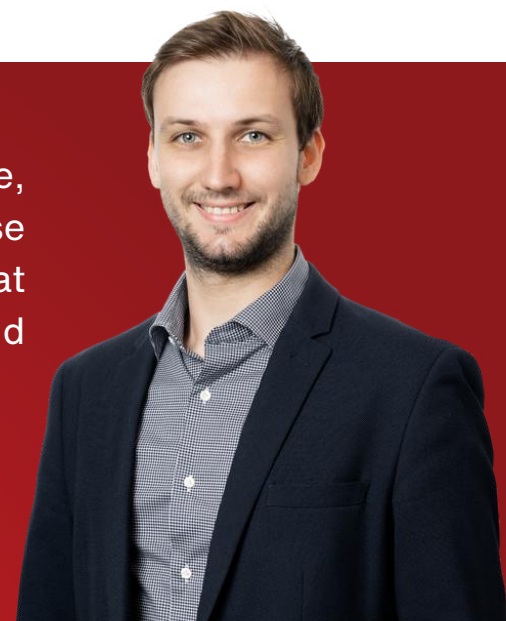
This phase focused on audiovisual requirements, ergonomic considerations, and detailed schematics. The next month was dedicated to cabling and wiring, ensuring a solid technical foundation.

Subsequently, BCE spent another month integrating and configuring the technical equipment. The final phases involved 15 days of rigorous testing and training, culminating in a five-day adjustment period to fine-tune the system.

BCE managed every stage of the project, ensuring all technical specifications were met while prioritizing user-friendliness and long-term maintenance.

"This project was both a technical and human challenge, tackled with precision and passion. Thanks to close collaboration with INA, we developed a 4K studio that meets their needs while ensuring top performance and long-term scalability."

Louis-Baptiste Huguex,
Audiovisual Integration Project Manager at BCE.



Throughout the process, BCE worked closely with the INA team, incorporating their feedback to develop a tailored, high-performance solution.

Cutting-edge technology for seamless production

The integration included industry-leading equipment such as the Sony 4K HXC-FZ90 cameras and mixing console, Ultrix video grid, VSM system, RTS Intercom, and Calrec audio console.

This advanced setup was put to the test with the inaugural broadcast of *Inattendue* on June 19, which proceeded smoothly and demonstrated the reliability of the new control room.

A future-oriented studio

The new UHD studio at INA represents a breakthrough in audiovisual production.

Designed to accommodate a wide range of content, from live broadcasts to social media productions and television programs, this facility strengthens INA's ability to produce in UHD.

Additionally, the 4K studio provides students and trainees at INA with a unique opportunity to gain hands-on experience with top-tier technology, ensuring they are well-prepared for the future of the industry.

INA remains a unique public enterprise, preserving decades of audiovisual history while embracing the future.

With over 1.5 billion video views annually, INA archives, digitizes, and shares one of the world's largest audiovisual collections with audiences worldwide.

In an era of rapid digital transformation, INA continues to play a pivotal role in reshaping the audiovisual landscape, ensuring the preservation and transmission of knowledge and expertise for future generations. ■

“We are proud to have supported INA in the realization of this 4K studio. At BCE, we leverage our expertise and innovative solutions to help industry players navigate today's and tomorrow's technological challenges.”

Philippe Mauduit, President of BCE in France.



Production
control room





BCE POWERS THE PRODUCTION AND LIVE STREAMING OF SOTIS 2024

Leveraging BCE's expertise in live production with our live streaming solution Freecaster part of Media-as-a-Service.

For the 42nd edition of SATIS – the premier French-speaking trade show dedicated to audiovisual and cinema technologies – BCE took charge of producing and live-streaming all sessions from the two main conference halls. With its Freecaster solution, part of BCE’s Media-as-a-Service (MaaS) offering, BCE ensured uninterrupted coverage of the event, allowing a global audience to tune in live via the SATIS website.

Spanning two days, SATIS 2024 attracted an all-time high attendance of 8,960 visitors from across France, Belgium, Morocco, Canada, and beyond.

Through BCE’s expert live-streaming, the event extended its reach far beyond the physical venue, bringing insightful discussions and keynote sessions to an international audience.

A hub for innovation and industry insights

This year’s SATIS provided a deep dive into key topics shaping the audiovisual and cinema industries, including artificial intelligence, eco-responsibility, virtual production, digital transformation in broadcasting, and advanced audio-visual communication.

With nearly 70 conferences and 250 expert speakers, the event delivered valuable perspectives on industry trends and innovations.

Freecaster: elevating live streaming excellence

BCE’s Freecaster solution played a pivotal role in ensuring a high-quality, dynamic live production, featuring multiple camera angles, superior video quality, and optimized content distribution. Beyond real-time streaming, Freecaster also provided catch-up and instant replay features, maximizing audience engagement across platforms and social networks.

With a proven track record in producing and streaming large-scale events such as ING marathon,

“SATIS 2024 exceeded all expectations, with an 8% increase in attendance and fully packed conference rooms. Its success is largely due to its strong conference program, which offers a comprehensive analysis of industry challenges while presenting concrete solutions.”

Stephan Faudeux, SATIS organizer and CEO of Génération Numérique.



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Tomorrowland and the Fashion Weeks, BCE once again demonstrated its ability to deliver professional, high-impact digital experiences.

A future-ready approach to digital broadcasting

As the audiovisual landscape continues to evolve, BCE remains at the forefront, offering cutting-edge solutions for event production and live streaming.

By powering SATIS 2024, BCE reinforced its commitment to enabling seamless digital experiences and expanding access to industry-leading events worldwide. ■





RTL district

BCE PARTNERS WITH RTL BELGIUM TO LAUNCH RTL DISTRICT

A new channel for crime enthusiasts

BCE Luxembourg is proud to announce its partnership with RTL Belgium to launch RTL District, an exciting new crime series channel. Designed to captivate true crime fans, the channel made its debut on November 18, 2024.

A unique programming concept

RTL District offers an immersive experience into the world of law enforcement and criminal investigations.

The channel airs six hours of fresh content daily, from 6 p.m. to midnight, with a rebroadcast the following day from noon to 6 p.m.

This programming strategy maximizes RTL Belgium's extensive back catalogue and rebroadcasting rights, allowing viewers to enjoy a diverse range of high-quality crime series.

BCE's role in bringing RTL district to life

BCE played a fundamental role in launching RTL District, providing the technical expertise and infrastructure necessary for seamless broadcasting.

Our teams were responsible for setting up the multi-distribution configuration, finalizing the critical connection between Luxembourg and Brussels, and training RTL Belgium's staff to efficiently use our traffic tools. This collaboration ensured a smooth and reliable broadcast, which BCE will continue to oversee.

Technical expertise behind the project

Several BCE teams contributed to making RTL District a success. The Broadcast Engineering team

An exciting addition to Belgian television

RTL District is the first Walloon television channel launched in five years, responding to the growing interest in true crime stories, judicial affairs, and investigative programming.

The channel transforms crime storytelling into an engaging and immersive experience, dividing its content into themed “districts.” These districts represent different aspects of the crime and justice world, allowing viewers to explore famous criminal cases, high-stakes emergency situations, and behind-the-scenes investigations.

A tailored viewing experience

The structure of RTL District offers viewers a well-organized selection of crime-related content. The "Law Enforcement District" showcases investigations led by figures like Bertrand Caroy, offering insights into law enforcement challenges.

The "Criminal Minds District" features series such as *Un Crime Parfait* and *Portraits de Tueurs*, delving into the psychology of criminals and the details of high-profile cases. These programs will continue to air on RTL-TVI, with new episodes premiering every Tuesday night. ■

Belgian television personality Julie Denayer, a key figure in RTL’s crime programming, highlighted the significance of this launch: “We know there is a strong audience for this type of content. Crime investigations and judicial affairs have always fascinated viewers, and RTL District is here to meet that demand.”

Multiplatform control room





GROWTH: BCE EXPANDS ITS NOC CAPABILITIES

Olivier Thevenot
Network Operation Center Senior Engineer

Adrien Gallo
Network Operation Center Engineer

BCE has successfully completed the expansion of its Network Operations Center (NOC), enhancing its monitoring and operational capabilities.

The project, which began in May with planning and analysis, moved into construction on August 5th and wrapped up by early September 2024—just in time for the start of the sports broadcasting season.

Key upgrades and enhancements

A major part of the expansion was enlarging the NOC room to accommodate a larger control desk and an extended media wall.

The main desk now features eight additional sections with eight new desk-mounted monitors, all integrated by BCE's in-house team.

during construction, the team successfully managed the upgrade without disruptions.

The NOC is now equipped with 28 display screens, 21 desk monitors, 28 KVMs, and 21 SDI-HDMI signal converters, ensuring it is fully prepared for future operations.

“This expansion benefits client engagement, allowing for more seamless media operations. Overall, these advancements mark a crucial step forward in optimizing live broadcasting capabilities.”
Explains Adrien Gallo, Network Operation Center Engineer at BCE

The media wall has grown from 20 to 28 screens, each 55 inches, requiring a complete redistribution of video and network signals and a full rewiring of the main and technical rooms.

Managing challenges and ensuring continuity

Despite the challenge of keeping the NOC fully operational 24/7

A team effort for future growth

This achievement was made possible by the collaboration of multiple teams, including NOC, Technology & Development, Operations, and Internal Services. The expanded facility strengthens BCE's ability to manage network operations with greater efficiency and scalability.



“The 24/7 NOC service plays a crucial role in maintaining RTL City’s technical infrastructure while also ensuring reliable monitoring for telecom, system, and network clients. Additionally, its ability to manage and capture live events from various sources—satellite, internet, and more—demonstrates its versatility. The service’s comprehensive approach strengthens operational efficiency and enhances media broadcasting reliability.”

**Olivier Thevenot,
Network Operation Center Senior Engineer at BCE.**



“The recent extension brings significant improvements, particularly in increasing NOC capacity and enhancing media management. With the ability to handle up to 30 simultaneous live transmissions, the system now offers greater flexibility and efficiency in reception and transmission.” ■

**Adrien Gallo,
Network Operation Center Engineer at BCE.**



LIVE COVERAGE OF POPE FRANCIS' VISIT TO LUXEMBOURG

BCE and RTL Lëtzebuerg deliver unprecedented live coverage of Pope Francis' visit to Luxembourg

When Pope Francis made his historic visit to Luxembourg in September 2024, BCE (Broadcasting Center Europe) and RTL Lëtzebuerg joined forces to provide seamless live coverage, bringing the event to audiences worldwide.

With a highly coordinated technical effort, the teams ensured uninterrupted broadcasting across multiple locations, showcasing their expertise in large-scale live production.

A monumental technical challenge

Covering an event of this magnitude required a robust and carefully planned infrastructure. Beginning the previous Sunday, BCE teams deployed cutting-edge broadcast equipment across key locations in Luxembourg City, including the airport, Cathédrale Notre-Dame, Palais Grand-Ducal,

Cercle Cité, and the main city streets. This meticulous setup ensured a flawless live transmission on the day of the visit.

Coordinated efforts for seamless production

On the ground, a team of 120 technicians and operators worked in unison, utilizing 50 strategically positioned cameras to capture every significant moment.

BCE's advanced production capabilities included Outside Broadcast (OB) vans and Satellite News Gathering (SNG) vehicles, all linked to BCE's state-of-the-art Payout over IP broadcast center.

This setup enabled live streaming on RTL Lëtzebuerg TV and its website, with global distribution via the European Broadcast Union (EBU).

RTL's Technical Director, Tom Weber, highlighted the complexities of live broadcasting across multiple locations. "Ensuring real-time transmission from various sites is always a challenge, but thanks to the expertise of our teams, we delivered uninterrupted coverage."

Christian Fischer, Director of the live broadcast, emphasized that the production's scale and intricacy were on par with other major state events, such as Grand Duke Jean's accession and funeral ceremonies.

Innovation in broadcast technology

To enhance visual quality, BCE implemented advanced lighting solutions, including specialized balloon lights at the Cathédrale Notre-Dame, which illuminated the intricate details of the event.

The company also introduced a groundbreaking centralized

production model based at Place Guillaume II, where signals from 50 cameras across the city were transmitted via fiber optic networks to BCE's mobile broadcast unit. This setup streamlined production workflows and ensured the highest standards in live broadcasting.

As an additional layer of reliability, key camera feeds were simultaneously transmitted over 5G networks using the StreamHub platform. This provided a robust backup for live video transmission in case of fiber optic failure. With the support of Post and Tango, this innovation guaranteed uninterrupted coverage throughout the event.





Strategic partnerships for a successful broadcast

BCE and RTL collaborated with top-tier local partners, including Free Lens TV Sàrl, PRO MUSIK Sàrl, Codex Events S.A., Luxconnect & Post Luxembourg, Foodclan, Amplitude, and TV Skyline GmbH. These partnerships played a crucial role in managing the extensive logistical and technical demands of the production.

BCE's responsibilities extended beyond television production. The company managed international TV

and radio signal distribution, operated a dedicated media center, provided satellite broadcasting via Eurovision and ENEX, and facilitated multi-language streaming services.

Additionally, BCE delivered live subtitling for public viewing areas in Luxembourg City, ensuring accessibility for a diverse audience.

Bringing the historic visit to the world

The broadcast coverage included Pope Francis' arrival at Luxembourg Airport, his meetings at the Palais

“The Papal visit project was a massive technical undertaking, but our teams executed flawlessly. Collaborating with RTL and leveraging our vast experience in large-scale live events enabled us to deliver a world-class broadcast.”

Xavier Thillen, Head of Production
and Digital Media Operations at BCE





Grand-Ducal, his journey through the city in the popemobile, and his visit to Cathédrale Notre-Dame, where he engaged with the Catholic community.

BCE's centralized production model allowed for real-time signal distribution to major public viewing areas, including large screens at the airport VIP lounges and key locations across the city.

Global audiences accessed the event through Eurovision and ENEX, with broadcasters receiving high-quality footage in 16/9 format HD video and stereo audio.

BCE also provided media outlets with ProRes HD and MP4 formats, ensuring the best possible visual experience.

Between live segments, highlight reels and beauty shots enriched the international feed, giving viewers a comprehensive narrative of the Pope's visit.

A benchmark in live event broadcasting

Through careful planning, technological innovation, and expert execution, BCE and RTL delivered an exceptional live production, ensuring that Pope Francis' visit was experienced by audiences worldwide.

This event once again demonstrated BCE's ability to manage large-scale, high-profile broadcasts with precision and excellence. ■









SPINNING WITH PURPOSE

Our employees joined 19th edition of the *Télévie* Challenge.

On March 28, 2025, around 300 participants, including colleagues from BCE, RTL Group, RTL Lëtzebuerg, IP Luxembourg, Media Assurances, ENEX, alongside Luxembourgish politicians, artists and athletes, joined the 19th edition of the *Télévie* Challenge in Luxembourg to raise funds to support the fight against cancer.

This year, the challenge was brought to the next level as 23 teams cycled for 450 minutes non-stop, covering a total of 4,534 kilometres.

Each kilometre cycled contributed to the final donation from RTL Group to *Télévie*, amounting to a total of €60,000 – money that will support cancer research.

Since the first edition of *Télévie* in 2005, RTL Group has donated over €1 million for this cause, thanks to the dedication, motivation, and solidarity of its employees. ■



MEET BCE

12-15
SEP
2025

IBC 2025

Integration, Production, Managed Services,
Media-as-a-Service, Holovox, Freecaster, Playit, NxP
Hall 1 Booth C16
RAI Amsterdam, Europaplein 24
1078 GZ Amsterdam, Netherlands

5-6
NOV
2025

SATIS 2025

Integration, Production, Managed Services,
Media-as-a-Service, Holovox, Freecaster, Playit, NxP
Dock Pullman Booth B25
87 Avenue des Magasins Généraux
Aubervilliers, France

14-15
JAN
2026

HAMBURG OPEN 2026

Integration, Production, Managed Services,
Media-as-a-Service, Holovox, Freecaster, Playit, NxP
Hall B6 Booth 211
Messepl. 1
Hamburg, Germany

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