



**Marie-Thérèse
SOMBO**
officially launches
the ESURSI digital
portal

RSNC eand JICA
establish a joint coordination
committee

DYFERSCO/NSC
organizes a scientific conference in
Kinshasa

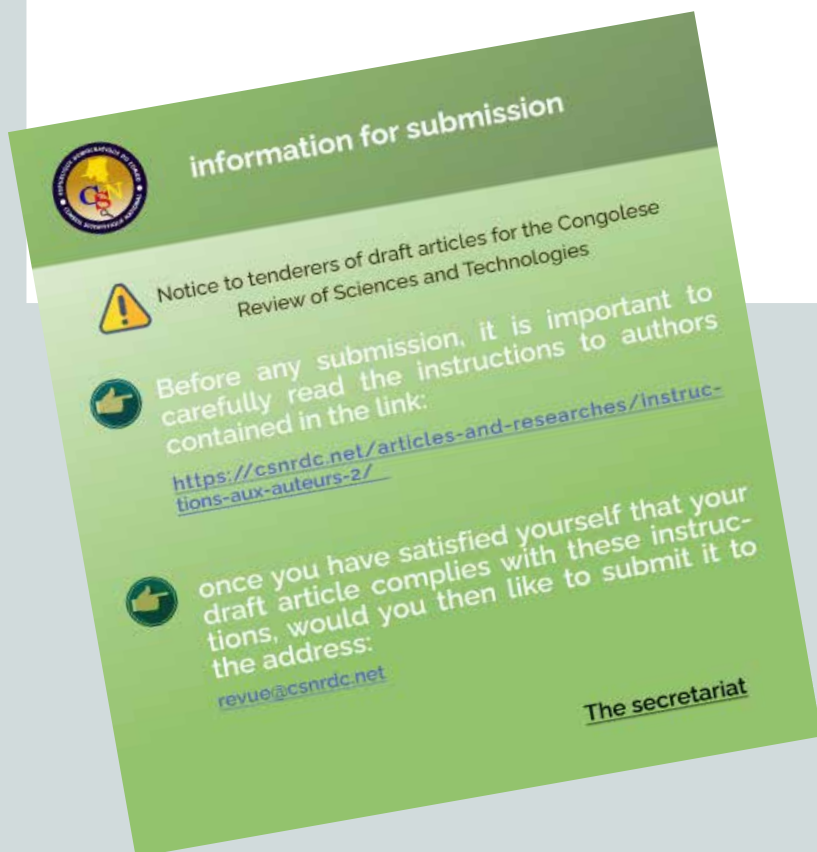
NSC
organizes its 60th ordinary session on
March 25, 2026




Call for publication in the
Congolese Review of Science and Technology
ISSN (Online) : 2959-202X
ISSN (Print) 2960-2629
DOI prefix : 10.59228/rcst
www.csnrdc.net


CONTENTS


Edito.....	P3
Activities of the Minister of ESURSI	
• Marie-Thérèse SOMBO suspends activities at the Official University of Mweka.....	P4
• Marie-Thérèse SOMBO officially launches the ESURSI digital portal.....	P5
• Marie-Thérèse SOMBO declares a radiological emergency in Kolwezi (Remblai T17).....	
• Minister Marie-Thérèse SOMBO advocates for the inclusion of women in the reform of the Congolese National Police.....	P6
NSC Activities	
• The NSC organizes its 60th ordinary session in Kinshasa.....	P7
• DYFERSCO/NSC organizes a scientific conference in Kinshasa.....	P8-9
Echoes of Research Institution	
• JICA strengthens the capacities of RSNC experts.....	P10
• The RSNC and JICA establish a Joint Coordination Committee.....	P11
• CRMN/Gemena: Obesity Day, Awareness and Call to Action.....	P12
At the time of Innovation	
• "Okapi" Electric Cars and Motorcycles in Kinshasa.....	P13-14
Read for you	
• South Africa: PropelMapper, a Voice-Driven AI to Transform Agricultural Extension.....	P14
Public Sector Research Centers and Institutes in the DRC.....	P15



information for submission

 Notice to tenderers of draft articles for the Congolese Review of Sciences and Technologies

 Before any submission, it is important to carefully read the instructions to authors contained in the link:
<https://csnrdc.net/articles-and-researches/instructions-aux-auteurs-2/>

 once you have satisfied yourself that your draft article complies with these instructions, would you then like to submit it to the address:
revue@csnrdc.net

The secretariat



Editorial Board of the Sciences and Techno-

logical Innovations Bulletin(STIB)

Publication Director :

Christian MAZONO MPIA (NSC)

Editor in chief :

José MUSANGANA (HSRS)

General Secretary :

Jacques ASUKA MOTUNDU (NSC)

Editorial Secretary :

Jeanpi KALOMBO KANYINDA(NCRS)

Deputy Editorial Secretary :

Nathalie NKANGA (CGI)

Central Editor :

Freddy IPUKA BADJE (NSC)

Consort BELESI (NSC)

Jean-Luc BALOGJE SELENGE (CRMD/BUNIA)

Alain MBUYI MPOYI (WERC)

Nicole LUBUYA KANDA (GMRC)

LOTIME ANDANDA (CRLCA)

Freddy MADUKU MANZOMBA (NDRC/GEMENA)

Théodore LUMU MBINGE (AIPS)

Marketing and Advertising :

Mélanie MWAMINI ZUHULA (CEA)

Patrick NSILULU MIFUNDU (NSC)

Design and Computer Graphics :

Patrick BHAYO (NSC)

Liévin MULUMBA KAPULU (MERC)

Josaphat MENAVUVU (NSC)

MPELO KANI. STEVENS (NSC)

Camera :

Jean Louis MBANDA (NCRS)

Johnny MINGANU (NSC)

Translator :

Roger MBOMA KWENGE (NSC)

Distribution

Baby MONKIA (NSC)

Rebuilding to innovate

When challenges become complex, it's no longer enough to simply add something new to the old; you have to rethink the core of the system. This is the very essence of "rebuilding to innovate." Rebuilding means returning to the fundamentals to strengthen them, clarify them, and adapt them to the demands of the times.

Through the facts, initiatives, and perspectives gathered in this issue, it is clear that sustainable progress is built upon the foundations of institutions, the modernization of tools, and the harnessing of collective intelligence. It appears that rebuilding means restoring order, strengthening governance, redefining priorities, and re-establishing coherence between vision and action. Seen from this angle, rebuilding is not a step backward but an act of clarity and courage, constituting a foundation for innovation in the higher education and research sector. It is in this spirit that the Minister of Higher Education and Research, Professor Marie-Thérèse Sombo, whose commitment reflects a clear will on the part of the State, has led the actions to strengthen the sector's governance and open new avenues for transformation.

Her actions serve as a reminder that respect for standards, ethics, and institutional order is paramount, even if it requires the suspension of activities for a university that fails to meet these requirements. Rebuilding and innovating means choosing controlled progress, rooted in rigor, driven by intelligence, and oriented towards the common good. To be fruitful, these actions require a stable foundation, credible institutions, solid expertise, and a clear vision. In this spirit, even in a sensitive context such as a radiological emergency, public action reveals how essential science, technical vigilance, and institutional capacity remain for protecting populations.

The need to rebuild in order to innovate extends just as naturally to the work of the National Scientific Council, a true body for steering and ensuring the coherence of



Professor
Pius MPIANA TSHIMANKINDA
NSC President

research at the national level. The holding of its 60th ordinary session reflects the vitality of this forum where the country's scientific priorities are conceived, discussed, and guided. In this context, strengthening consultation frameworks within research centers and institutes means consolidating the very foundations of national development.

To this structure is added the decisive importance of strategic partnerships. The actions undertaken by them, such as capacity building for experts or the establishment of a joint coordination committee, illustrate that science progresses when it relies on cooperation, skills transfer, and access to cutting-edge tools. In a continental country like the DRC, mastery of technologies such as remote sensing, mapping, and territorial observation represents an instrument of governance, planning, and sovereignty where the role of these partnerships is crucial.

However, science and innovation only truly come into their own when they translate into visible, useful, and appropriate innovations. In this respect, the launch of electric cars and motorcycles is a powerful example, because innovating means not only introducing new technologies, but also concrete, useful, and sustainable ones. Finally, this issue opens with a look at the continent, focusing on South Africa and the experience of using voice-activated artificial intelligence in agriculture. This experience demonstrates that Africa innovates, invents, and adapts tomorrow's technologies to its real needs.

Ultimately, rebuilding to innovate goes beyond minor adjustments or adding new features to the old: it means rethinking the foundations. This dynamic proves that true progress does not consist of accumulating new features, but of rebuilding the essentials to open up new perspectives, because where the foundations are solid, innovation ceases to be mere hype and becomes a force for transformation.

Activities of the Minister of ESURSI



H.E.M. Marie SOMBO, Minister of ESURSI

Marie-Thérèse SOMBO suspends activities at the Official University of Mweka

The Minister of Higher Education, University, Scientific Research and Innovation (ESURSI), Marie-Thérèse SOMBO, suspended activities at the Official University of Mweka (UNIOMK) on March 31, 2026.

This decision follows the persistent unhealthy climate within the institution, characterized by major dysfunctions in the management and operation of academic and administrative activities. Numerous complaints from various university departments, as well as recorded incidents, have led to a gradual paralysis of activities.

Faced with this worrying situation and in order to preserve academic order and the quality of higher education, the Minister deemed it necessary to suspend, until further notice, all academic and extracurricular activities at the institution.

During the suspension period, academic, scientific, and administrative staff, as well as students, are urged to strictly observe the rules of order and discipline.

This measure aims to ensure an environment conducive to implementing corrective actions before resuming activities.

Furthermore, a mission has been dispatched to conduct a thorough assessment of the situation. This mission team is tasked with producing a detailed report that will enable the supervisory authority to take appropriate measures as soon as possible to ensure the smooth and harmonious operation of the institution.

The Minister reassured all stakeholders of her commitment to restoring a sound and stable academic environment that meets the standards of higher education in the Democratic Republic of Congo.

Communications Unit of the Minister of ESURSI



Family photo of Their Excellencies

Marie-Thérèse SOMBO officially launches the digital portal of ESURSI

The Minister of Higher Education, University, Scientific Research and Innovation (ESURSI) Marie-Thérèse SOMBO officially launched the digital portal dedicated to this sub-sector at the Pullman Hotel on March 30, 2026 in Kinshasa.

In her address, the Minister highlighted the structural challenges the sector has faced for several years. She specifically mentioned the fragmentation of information systems, limited access to scientific resources, and inequalities in access to knowledge, particularly pronounced between urban and rural areas.

She also underscored persistent constraints, including the still limited level of digitalization of public services, restricted access to broadband nationwide, and the weak integration of technological tools into academic and administrative practices.

In this context, the launch of this digital portal is fully aligned with the vision of the Judith Suminwa government to accelerate the country's digital transformation. This strategic tool is positioned as a driver of growth, a vector of social inclusion, and an instrument for consolidating national sovereignty, she emphasized. A true governance tool, this portal represents a significant step towards establishing an integrated ecosystem based on reliable, accessible, and usable data in real time. This will improve the quality of decision-making and the effectiveness of public policies in the sector, she added.

It is important to remember that through this modern and efficient platform, the foundations of a harmonized system are now established, with the following main objectives :

- The centralization and security of academic data;
- guaranteeing the traceability of academic pathways;
- facilitating access to educational and scientific resources;
- strengthening sector governance through optimal data utilization.

Communications Unit of the Minister of ESURSI

Activities of the Minister of ESURSI

Marie-Thérèse SOMBO reports a radiological emergency in Kolwezi (T17 Embankment)



The Minister of Higher Education, University, Scientific Research and Innovation (ESURSI), Marie-Thérèse SOMBO, officially declared a radiological emergency situation in the Remblai T17 area, located in Kolwezi, in the Lualaba province, on March 23, 2026 in Kolwezi.

This decision was taken on behalf of the Government of the Democratic Republic of Congo, in accordance with the fundamental duty to protect the population and the environment.

A worrying situation for public health

According to the Minister's statement, the confirmed presence of radioactive materials in this area, resulting from artisanal mining operations, poses a serious threat to the health of local populations, national security, and the ecological balance.

Faced with this critical situation, the authorities deemed it imperative to act immediately to prevent any further contamination.

Urgent measures already underway

The Government, through its relevant agencies, has already undertaken several concrete actions, including: deploying qualified experts to the field, mobilizing

specialized teams, implementing protection and decontamination measures, and establishing a continuous monitoring system.

These measures aim to rigorously secure the site and effectively protect exposed populations.

A call for vigilance and collective responsibility

The Minister also called on all citizens to be vigilant and disciplined, strictly adhering to the instructions issued by the relevant authorities.

She emphasized the importance of collective action to address this crisis and mitigate its impact.

Government Commitment

The Government of the Democratic Republic of Congo reaffirms its commitment to mobilizing all necessary resources, acting with transparency and

responsibility, and preserving national sovereignty in managing this emergency.

A call for national unity

In her message, the Minister expressed her confidence in the Congolese people's ability to demonstrate unity and resilience in the face of this challenge.

This statement marks an important step in managing the risks associated with artisanal mining activities. It underscores the need for rigorous oversight and increased vigilance to guarantee the safety of the population and the protection of the environment from the effects of ionizing radiation.

Communications Unit of the Minister of
ESURSI

Minister Marie-Thérèse SOMBO advocates for the inclusion of women in the reform of the National Police



The Minister of Higher Education, University, Scientific Research and Innovation (ESURSI), Professor Marie-Thérèse SOMBO, attended the 12th edition of the morning of information and reflection devoted to the condition of women and police reform.

On this occasion, she represented the Deputy Prime Minister and Minister of the Interior, His Excellency Jacquemain Shabani, thus reaffirming the Government's commitment to issues related to equality and social justice.

The theme focused on women's access to justice.

Under the theme: "Ensuring access to justice for all women and girls in order to eliminate discrimination, structural barriers, and persistent inequalities," this meeting brought together several stakeholders committed to promoting women's rights.

In her address, the Minister highlighted the strategic role that women can fully play within the Congolese

National Police.

Women, an essential pillar in law enforcement

Professor Dr. Marie-Thérèse Sombo emphasized that women possess the same cognitive and professional capacities as men and that they must be more fully integrated into security structures. She encouraged a modern and inclusive vision of police reform, where women must play a central role in maintaining order and consolidating peace.

Enriching discussions on women's advancement

The second part of the ceremony featured presentations by the following speakers: Virginie Matu, Adeline Ngalula, Mireille Makaya, and Nada Aly Fayed.

Their presentations focused on the advancement of women in law enforcement, the challenges related to their integration, and encouraging young women to join the Congolese National Police.

A renewed commitment to equal opportunities

Closing the meeting, the Minister reaffirmed the Government's commitment to promoting equal opportunities, combating all forms of discrimination, and strengthening the inclusion of women in all strategic sectors. A vision for a more equitable society

Through its participation, the Ministry of Higher Education, Scientific Research and Innovation (ESURSI) confirms its commitment to actively contributing to the building of a more just society where women and girls fully enjoy their rights and actively participate in the country's development..

Communications Unit of the Minister of ESURSI

NSC Activities

NSC is holding its 60th ordinary session on March 25, 2026.



Prof. PIUS MPIANA TSHIMANKINDA, NSC President

The National Scientific Council (NSC) held its 60th ordinary session on Wednesday, March 25, 2026, in the "Maître José MPANDA" conference room at CRESH, located at 33 Avenue Comité Urbain in the Gombe district.

Several points were at the heart of this ordinary session: reading and adoption of the minutes of the 59th ordinary session of the National Scientific Council (NSC) of December 22, 2025; review of the record of decisions and recommendations of the ordinary session of February 22, 2025; operation of Research Institutions during the intersession from January 2025 to March 2025; reports from the commissions created by the NSC; preparation of the budget forecasts for Research Institutions for the 2027 fiscal year; adoption of the organizational structures of the Water and Environment Research Center (WERC), the Goma Volcanological Observatory (OVG/Goma), and the Maintenance and Technological Support Service (SEMATECH); review of the files concerning the appointments and promotions of staff and managers of the Research Centers and Institutes; and other matters.



The President of the NSC, Professor MPIANA TSHIMANKINDA Pius, stated that this meeting allowed for the discussion of all the items on the agenda and some files concerning the Centers, and that he will continue to advocate for the Government to allocate the necessary resources to support researchers working in research centers and universities.

Continuing his speech, he emphasized the crucial need for Research Centers to be competitive in developing research projects to secure funding.

In closing, the head of the NSC reiterated the importance of member participation in the sessions and reminded

everyone that the decisions made there are binding on all Research Institutions.

It should be noted that during this event, several recommendations were formulated for the effective operation of Research Centers and Institutes in the Democratic Republic of Congo (DRC).

The NSC holds four ordinary sessions per year. The 60th ordinary session was the first of this year.

MAZONO Christian/NSC

NSC Activities

DYFERSCO/CSN is organizing a scientific conference in Kinshasa



Family photo of the women of DYFERSCO/NSC around the President and the Permanent Secretary of the NSC

On the occasion of the commemoration of the day dedicated to women's rights, the Dynamics of Women in Scientific Research of Congo of the NSC (DYFERSCO/NSC) organised a scientific conference on the theme "Access to education and scientific training for all women and girls", on March 30, 2026 in Kinshasa at the RCHS.

Taking the floor, the moderator, Ms. BANGA UBA KOSANGA Valentine, Head of the Bureau, thanked the attendees and apologized for the slight delay in the start of the event.

After the national anthem was played, the moderator presented the day's program,



Chief of Office FEAR UBA MEET Valentine

the sub-themes to be explored, and the speakers. The history of women at the National Scientific Council (NSC) was presented as an introduction by Division Head Romain ZUSHI TAKA, who recounted the history of the Ministry of Scientific Research before and after colonization. He then spoke about



Head of Division ZUSHI TAKA Romain,

the creation of the NSC in 1982, a structure that regulates the activities of Research Centers and Institutes. He encouraged the participants to follow the example of women holding positions of responsibility within the Ministry, including Minister Marie-Thérèse SOMBO, the Director General of WERC, Ms. Patience GELINKOTO, the Vice-President of NCPiR, Professor Odette KABENA, the Director of CRAA, Professor KAPEMBA Florence, the Director of Administration and Finance of WERC, Ms. MUSEKU EJIBA, and the Director of Administration and Finance of IRSS, Ms. KATUANGA Christine.

He went on to note that the NSC's Permanent Secretariat currently has 11 female heads of office compared to 7 male heads of office.

He concluded his speech by saying that anyone who provokes the women of the NSC's Permanent Secretariat is provoking the Minister of Higher Education, Scientific Research and Innovation (ESURSI). The origins of International Women's Day were

presented by Ms. Bénédicte Kintadi, who recalled that it dates back to 1908 when women in a textile factory demanded their rights to reduced workloads and improved wages. She emphasized that this day is a



Mrs. Bénédicte KINTADI, member of DYFERSCO/NSC

time for reflection, celebrating achievements, and advocating for women's empowerment. She also encouraged women to consider introducing girls to science, technology, and mathematics (STEM) from a young age.

The moderator then gave the floor to the first speaker, Ms. Engombe, a researcher at WERC, who addressed the topic: "Women and STEM."

She began by noting that women were underrepresented in the capacity-building training for researchers at the National Scientific Council (NSC). She added that in the field of mathematical sciences, women represent only 40%, a figure she attributes to societal stereotypes and a lack of role models in schools. The speaker outlined several reasons for this underrepresentation

NSC Activities



Mme ENGOMBE Josette (ASSR2/WERC)

of women, including a perceived lack of ambition, poor organizational skills, and the responsibilities of married life. To address this issue, she proposed promoting equal opportunities for girls in basic education, establishing mentorship programs with scientists, providing scholarships, organizing conferences, and highlighting the success stories of women in science.

This speaker gave the example of several women who have made an impact in the field of science: Ms. Kirongozi, who invented the rolling robot, Ms. Ngalula, who invented the bi-level equalizer, and many others.

The second presentation focused on the sub-theme "Women's Leadership," led by CREE Researcher Ms. Luboya, who introduced her presentation by stating that leadership is often hindered by socio-cultural factors.

She presented the results of a study conducted on girls' attendance at a local school, which showed that out of 200 enrolled girls, 57 arrived late, 55 were absent, and 88 had dropped out.



Mme Jeannette LUBOYA MUJISANGIE, ATR/CREE

Ms. Luboya defined leadership as the ability to influence and direct scientific projects, and to actively participate in research and innovation with the aim of transforming society. She revealed that in the DRC, women

experience a low rate of social integration, as only 9.1% of female graduates (36.4%) manage to find employment.

The speaker concluded her presentation by stating that "leadership is an essential lever for progress and innovation," and that science needs women. Therefore, the DRC needs female scientists to address challenges in several areas, including the fight against deforestation, food security, waste management, and more.



Mme Laurette MBIYA KADIESA ASRz/ATSRC

Finally, the third presentation was given by ATSRC researcher Lorette Mbiya on the theme of "gender equality."

In her opening remarks, she stated that women will achieve equality when they share the same responsibilities as men. The journey toward gender equality is a collective endeavor. She emphasized that to meet these challenges, women must become informed, trained, and adapt to empower themselves. This speaker emphasized skills and encouraged women to stand up for themselves.

Ms. Lorette then reviewed several legal instruments, both international and national, that guarantee women's rights (human rights, the Maputo Protocol, the constitution, etc.).

She outlined several strategies for women's empowerment, including: access to financial services; education and training; political and social participation; rights and protection; and access to resources (improved access to information, technology, and agriculture).

Based on data published by the Ministry of Scientific Research and Innovation (MINERSIT) in 2021, she noted that women represented 7.4% of the 2,160 researchers, staff, and managers.

The speaker proposed several actions to address this challenge: doctoral training in national and international universities, continuing education, recruitment of female researchers, scholarships, awareness campaigns on gender equality, workshops for girls, mentoring between female scientists

and students, partnerships, monitoring and evaluation, and communication. She concluded by stating that despite the challenges, promising initiatives remain and efforts continue.

The floor was then given to the National President of DYFERSCO, Ms. Annette MUJINGA BEYA, who reiterated the role of this organization, which aims to empower women in research, and mentioned WISETO, led by Dr. NGWALO of IRSS.

The Permanent Secretary of the CSN, Mr. Johnny KABEYA, thanked the women for their active participation. He expressed his hope that women would be empowered to advance science.

The event concluded with a group photo with the President of the CSN, Professor MPIANA TSHIMANKINDA Pius, followed by a cocktail reception.

In fact, the women of DYFERSCO organize activities each year in various research institutions to enliven the month of March.



Master Johnny KABEYA BAJIKA, Permanent Secretary of the NSC

LUVANDU MBENZA Maguy
and Christian MAZONO/NSC

Echoes of Research Institutions

DRC: The NCRS welcomes Japanese experts to strengthen the capacities of Congolese experts in the use of remote sensing applications.



The National Remote Sensing Center (RSNC) hosted a mission of Japanese experts in Kinshasa on March 16, 2026, as part of its partnership with JICA. This visit marks a new stage in the cooperation between the two parties, focused on developing remote sensing applications in the Democratic Republic of Congo.

These experts work in strategic sectors such as mining, agriculture, and the environment, with a particular focus on natural resource management and disaster prevention. Their presence marks the beginning of a more operational phase of the project, centered on skills transfer and the adoption of remote sensing tools by national experts.

This initiative follows an initial phase of online training, conducted from December 2025 to January 2026, which strengthened the capacity of Congolese personnel in the use of satellite imagery, particularly in the mining sector. These skills are now being progressively put into practice to support government-level decision-making.

During their stay, the Japanese experts will work closely with the RSNC teams to adapt the training to the specific needs of national institutions. To this end, an



inter-ministerial meeting is planned with the secretaries-general of the Ministries of Mines, Agriculture, and the Environment. This consultation will help identify sectoral priorities and guide upcoming in-person training sessions.

The project manager, Mr. Kamei Masatoshi, will present the program's main points before opening discussions with stakeholders in a participatory and results-oriented manner.

It should be noted that through this strengthened collaboration with JICA,

the RSNC confirms its central role in promoting remote sensing in the DRC and in supporting public policies with reliable and innovative data.

Unit of communication of RSNC

Echoes of Research Institutions

Project to strengthen technical capacities in remote sensing in the DRC: The RSNC and JICA establish a joint coordination committee



As part of the implementation of the project to strengthen the use of remote sensing technologies in the Democratic Republic of Congo (DRC), the National Remote Sensing Center (RSNC), in partnership with the Japan International Cooperation Agency (JICA), organized the first meeting of the Joint Coordination Committee on Thursday, March 26, 2026, at the National Institute of Arts in Kinshasa.

In his welcoming remarks, the Director General of the RSNC, Professor David NGINDU, stated that "thanks to the support of JICA and the involvement of all stakeholders, this technical cooperation project will produce concrete results."

He also expressed his gratitude to Her Excellency the Minister of Higher Education, University Studies, Scientific Research, and Innovation for her unwavering commitment to the development of scientific research in the DRC.

Speaking on this occasion, the supervising Minister, Professor Marie-Thérèse SOMBO, indicated that "this initiative, which targets strategic sectors such as mining, agriculture, and the environment, is fully aligned with the vision of Head of State Félix-Antoine Tshisekedi, who intends to make science, technology, and innovation the essential drivers of the country's sustainable development." She added, "I encourage fruitful, constructive exchanges focused on concrete results." The JICA Resident Representative in the DRC, Mr.

Kiichi Okitsu, emphasized that "this cooperation primarily aims to strengthen technical and institutional capacities to enable the National Remote Sensing Center, as well as the Ministries of Mines, Agriculture, and the Environment, to make effective and sustainable use of remote sensing."

"This two-year project extends a previous phase to consolidate achievements and broaden its interventions, ensuring the sustainability of results while strengthening existing operational capacities," he added. This address was followed by a detailed technical presentation of the project, delivered by Mr. Kamei, a JICA expert, highlighting the areas of intervention and expected results.

For his part, Mr. MAEKAWA HIDENOBU, representing the Ambassador of Japan to the DRC, reaffirmed "Japan's commitment to supporting the Congolese government's efforts in the field of scientific research, in accordance with the 2024-2028 National Strategic Development Program, which highlights the challenges facing the DRC in terms of scientific and technological cooperation."

To ensure the project's success, the Secretary General for Scientific Research and Innovation, Mr. ODON NDAMBU, recommended that stakeholders "strengthen inter-ministerial coordination, place particular emphasis on capacity building, guarantee national ownership of the project, promote a results-oriented



culture, and ensure adherence to the timeline of commitments."

It is worth recalling that the establishment of the Joint Coordination Committee (JCC) is a key step in the project's governance. This consultation framework will ensure monitoring, strategic guidance of activities, and transparency in implementation, while ensuring the achievement of expected results.

Unit of communication of RSNC

CRMN/Gemena: Obesity Day, awareness-raising and call to action



The Documentation Research Department of the Gemena Multi-Nutritional Diseases Research Centre (CRMN/Gemena) organised a conference-debate on obesity on 20 March 2026 in Gemena.

The conference was moderated by José Bizanga.

The event brought together researchers from the CRMN (National Reference Center for Neuromuscular Diseases), healthcare professionals, and members of the public to discuss a major public health issue. Its theme was: "Understanding the mechanisms of obesity and considering solutions for its prevention and management."

A complex health problem

Obesity, defined as an excess of body fat with serious medical and social consequences, is distinct from simple overweight. Speakers emphasized that BMI remains a key indicator, but is insufficient on its own. The location of fat, particularly abdominal fat, is a far more significant risk factor.

"Visceral fat acts like a pathological endocrine organ," explained José Bizanga, highlighting its role in chronic inflammation, insulin resistance, and hypertension.

The many faces of obesity

The conference detailed the different forms of obesity: dietary, genetic, hormonal, psychological, and secondary (related to medication). Particular emphasis was placed on abdominal obesity, described as metabolically active and toxic, responsible for a cascade of phenomena leading to cardiovascular diseases.

Contributing factors: an explosive cocktail

The causes of obesity are multifactorial. Genetics determines susceptibility, but it is primarily the environment and behaviors that trigger the disease. Urbanization, sedentary lifestyles, processed foods, chronic stress, and social inequalities create an "obesogenic" environment where predispositions are fully expressed.

Medical and social consequences

The effects of obesity are formidable: cardiovascular diseases, type 2 diabetes, cancers, musculoskeletal and respiratory disorders. But beyond the medical aspects, the speakers emphasized the psychological suffering: stigmatization, isolation, decreased self-esteem, and anxiety disorders.

Among athletes, being overweight can be misleading: a high BMI doesn't always reflect poor health, but it can lead to medical and social

misunderstandings.

Prevention and Management

Prevention relies on a balanced lifestyle: a healthy diet, regular physical activity, sufficient sleep, and stress management. Children and adolescents require special support, with healthy habits encouraged from a young age.

Management, on the other hand, must be comprehensive and personalized: medical evaluation, setting realistic goals, a nutritional and exercise plan, regular follow-up, and social support. In severe cases, options such as cognitive behavioral therapy, medication, or bariatric surgery may be considered.

A Call for Collective Responsibility

In closing, the speakers emphasized the need for an integrated approach: "Obesity is not just an individual matter; it's a societal problem," Freddy Maduku reminded everyone. They insisted that nutritional education, the promotion of physical activity, and the regulation of the food environment must be combined to curb this scourge.

Unit of communication/CRMN/Gemena

At the time of Innovation

"Okapi" electric cars and motorcycles in Kinshasa



The Democratic Republic of Congo is now establishing itself as a key player in the field of technological innovation. After launching smartphones, tablets, and computers on the national market, the company Okapi is taking another step forward by offering the Congolese public electric vehicles and motorcycles.

The ambitious initiative is spearheaded by Jean Mongu Bele, a nuclear physicist and professor at the Massachusetts Institute of Technology. Through this project, he intends to promote modern, economical, and environmentally friendly mobility solutions. In his view, the goal is to foster the emergence of a local industry capable of meeting the country's energy and environmental challenges.

By putting his scientific and technological expertise at the service of the nation, this distinguished son of the country hopes to actively contribute to the sustainable development and modernization of the DRC. "This is a new project launched by Jean Mongu. This innovation involves manufacturing electric motorcycles and vehicles. We wanted to innovate and offer Congolese people the opportunity to own rechargeable electric motorcycles and vehicles that do not require fuel and have a range of over seven hours," explained Alain Mulumba, the export and import manager for the Okapi company.

The DRC Committed to the Fight Against Climate Change

Congolese physicist Jean Mongu aims to contribute to the fight against climate change through the design of electric motorcycles and vehicles. He proposes environmentally friendly solutions adapted to local realities, in order to reduce pollution linked to the use of fossil fuels. By developing electric means of transport, the designer promotes cleaner, more modern, and more sustainable mobility.

In short, his project is part of a vision of environmental protection by offering Congolese people an innovative alternative for their transportation needs. Both the motorcycles and the electric vehicles are already manufactured, assembled, and ready for distribution. Before being launched on the market, they are stored at the company's facilities located on the Ndolo Airport concession, opposite Forgeron Avenue, in the Limete district of Kinshasa.

This step ensures their storage and preparation before commercialization. Through this initiative,



the Okapi company hopes to meet the growing mobility needs of the population. Congolese residents of Kinshasa, as well as those from various provinces across the country, are encouraged to adopt these modern means of transport. The objective is to facilitate daily commutes and support commercial activities, while contributing to the transition towards more environmentally friendly mobility.

A Patriotic and Economic Vision

"I've lived in the United States for 30 years and I realized I hadn't done anything for my country yet.

That's why I decided to create a Congolese brand capable of showcasing our expertise," explained Jean Mongu Bele. In 2021, the company sold over 60,000 phones across the Democratic Republic of Congo. The initial idea was clear: to contribute to building a sustainable local economy.

"We opened 40 stores in several provinces. Congolese people bought our products, sold

them, and made a 15% profit, while brands like Apple or Samsung only offer around 5%. For us, it was a true expression of love for the Congolese people," the professor explained.

Today, the Okapi brand relies on its own distribution network. The brand's headquarters is located on Boulevard du 30 Juin, a symbol of Congolese excellence. Okapi is already

expanding throughout the DRC.

Jonathan Luambua/Ouragan

Read for you

South Africa: PropelMapper, a voice-activated AI to transform agricultural advice



In Africa, farmers face challenges that technology is beginning to address. PropelMapper is one example, with a solution designed to simplify and improve practices in the sector.

Propel Mapper is an agritech solution developed by a South African startup. It aims to modernize the work of agricultural advisors by leveraging artificial intelligence (AI) and voice interfaces.

Positioned as an "operating system" dedicated to field consulting, the platform intends to simplify the collection and use of agricultural data. The solution was launched in 2024.

"Advisors are forced to use standardized customer relationship management (CRM) software or spreadsheets that were not designed for their way of working: in the field, on the go, and managing dozens of relationships with farmers," said Christine van Wyk, Vice President of Applied Solutions at the startup. She added, "Crucial observations are lost between the field and the office. Knowledge remains trapped in individual heads instead of becoming

organizational intelligence." In practical terms, Propel Mapper allows professionals to capture their observations directly in the field via voice notes. These recordings are then processed by AI tools, which automatically transform them into structured, actionable, and shareable reports.

The platform also integrates customer relationship management (CRM), team collaboration, and mapping features, centralizing all data in a single environment.

The solution aims to address a recurring problem in the agricultural sector: data fragmentation and the burden of administrative tasks. Advisors often accumulate scattered information (notes, files, voice memos) that is difficult to use.

Propel Mapper aims to transform this raw data into actionable insights at the farm, market, and organizational levels.

Beyond increased productivity, the solution also promises to free up time for human interaction, considered essential in agricultural consulting. According to the company, automating reporting reduces the administrative workload while

improving the quality of the analyses produced. With this positioning, PropelMapper aligns with a trend of integrating AI and voice into professional tools, particularly in sectors where fieldwork is predominant. As agriculture becomes increasingly digital, this type of solution could play a key role in structuring data and optimizing decisions at the farm and supply chain levels.

wearetech.africa

PUBLIC-SECTOR RESEARCH CENTERS AND INSTITUTES IN THE D.R. CONGO

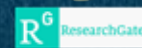
<p>RIHS (Research Institute in Health Science) <i>Objective: To improve the state of health of the population through research in the following fields: pharmaceutical, medical, anthropological, psychological or socio-cultural.</i> Address: 9, Av. Lukusa C/Gombe; E-mail: dnyembo@gmail.com; Tel: 0824580211</p>	<p>SSRC (Social Science Research Center / Bandunduville) <i>Objective: to carry out practical scientific research into major socio-economic and cultural issues.</i> To promote sustainable aquatic development. Address: 29, Av. de la mission, Q/Salongo, C/Basoko. BANDUNDUVILLE, BP. 223; E-mail: akuzituka@gmail.com; Tel: 0815898971</p>
<p>ATSRC (Applied and Technologic Sciences Research Center) <i>Objectif: Mettre au point des matériaux, des appareils, des méthodes ou procédés</i> <i>Objective: To develop materials, equipment, methods or processes with a view to finding solutions to the population's urgent problems in various fields: housing, rural development and the modernization of the society.</i> Address: 106, Blvd du 30 Juin, C/Gombe; E-mail: Jeannoel.mputu@gmail.com; Tel: 0821138261</p>	<p>FERC (Forest Ecology Research Center /Mabali) <i>Objective: Scientific research on plants, aquatic species and animal species.</i> Address: D.S/MBANDAKA D.S/MBANDAKA/PROVINCE OF ECUADOR; E-mail: bosomboependi2@gmail.com; Tel: 0825241704</p>
<p>RCHS (Research Center in Human Sciences) <i>Objective: To ensure the human development of the Congolese people through the study of its social, economic and political dimensions with a view to identifying the factors that have a positive or negative influence on its development.</i> Address: 33, Av. comité urbain C/ Gombe; E-mail: mingashang@yahoo.fr; Tel: 0819377821</p>	<p>NDRC (Nutritional Diseases Research Center/Gemena) <i>Objective: Research into diseases linked to malnutrition, such as related diseases by isolating certain molecules, such as SYZYSIUM GUINESIE to combat amoebic yeasts and diarrhea in South Ubangi.</i> Address: Mobutu n° 220/A. GEMENA/ SOUTH UBANGI PROVINCE; E-mail: cherusan-gi@yahoo.fr; 0992416091</p>
<p>RCMT (Research Center in Mathematics Teaching) <i>Objective: To carry out research in the field of mathematics teaching with a view to improving quality.</i> Address: 84, Av. des Ambassadeurs C/ Gombe; E-mail: mabelamatendorostin@gmail.com; Tel: 0815031877</p>	<p>NSRC (Natural Sciences Research Center /Lwiro) <i>Objective: To carry out, promote and coordinate research in the fields of science, technology and industry throughout the DRC.</i> Address: LWIRO LWIRO , TERRITORY OF KABARE/SUD KIVU; E-mail: robert.kasisi@umontreal.com; Tel: 0996806699.</p>
<p>GRC (Geophysical Research Center) <i>Objective: To provide the country with a national geophysical observation network, for the global study of the internal behavior of the earth in the DRC.</i> Address: 44, Av. de la démocratie, C/ Gombe (within GMRC); E-mail: tondozi@gmail.com; Tel: 0854426228</p>	<p>MDRC (Multidisciplinary Development Research Center /Bunia) <i>Objective: To carry out operational research in the north-east of the DRC in the fields of applied linguistics, African cultures and applied sciences.</i> Study of nature, fauna, flora and protection of endangered species. Address: BUNIA/ITURI; E-mail: Kermwathomas@gmail.com; Tel: 0997717070</p>
<p>AIPS (African Institute of Prospective Studies) <i>Objective: To carry out forward-looking studies in order to propose solutions to crises and problems linked to the evolution of African societies.</i> Address: Av. Cardinal Malula, C/ Lemba; E-mail: mgrtarciabangu@yahoo.fr; Tel: 0996658741</p>	<p>HRC (Hydrobiology Research Center in Uvira) <i>Objective: To program, coordinate and monitor research activities in hydrobiology, limnology and hydrology.</i> hydrobiology, limnology and fisheries in all ecosystems. Address: 115, Av. du Congo, Q/Kimanga, C/Kalundu, UVIRA / SUD KIVU; E-mail: bida-kamuhoza@gmail.com; Tel: 0997716307.</p>
<p>MDRC (Multidisciplinary Development Research Center/Matadi) <i>Objective: To carry out operational research in central Congo in the field of applied linguistics of African cultures and applied sciences</i> Address :Hôtel de la porte Matadi; E-mail: Mwanzanicolas5@gmail.com; Tel: 0815037949</p>	<p>CBRNEC (Chemical, Biological, Radiological and Nuclear Excellence Center) <i>Objective: To contribute to the mitigation of chemical, biological, radiological and nuclear risks.</i> Address: 106, Blvd du 30 Juin, C/Gombe; E-mail: coe.cbrn.rdc@gmail.com; Tel: 0817742543.</p>
<p>NCPIR (National Committee for the Protection of ionizing Radiation) <i>Objective: - Regulatory authority for protection against the dangers of ionizing radiation in the DRC management of radioactive sources of radioactive materials such as uranium.</i> Address: 4675, Av. Colonel Ebeya, Immeuble Quitus 2ème niveau; Email: Flory1963@gmail.com; Tel: 0816684665</p>	<p>GVO (Goma Volcanological Observatory) <i>Objective: Prevention of volcanic risks by monitoring volcanoes and Lake Kivu. Kivu; Management of natural risks; scientific research.</i> Address: 142, Avenue Du Rond Point ; Quartier Les Volcans ; Commune de Goma ; Ville Goma; North-Kivu; E-mail: mavotulu@gmail.com; Tel: 0998584734</p>
<p>AEC (French Atomic Energy Commission) <i>Objective: To carry out, promote and coordinate scientific and technical research in various fields of science and industry, concerning the use of atomic energy and space research.</i> Address: UNIKIN building; E-mail: Steve.muanza.kamunga@gmail.com; Tel: 0808643248</p>	<p>WERC (Water and Environment Research Center) <i>Objective: To serve as a training and research center focusing on water and environmental management.</i> To propose solutions to problems that could arise around water. Create a national network of Congolese scientists and researchers to analyze and disseminate information on the impact of climate change in the DRC. Promote education and the right to the environment. Address: 44, Comité Urbain C/ GOMBE; E-mail: ngelipatience@gmail.com; Tel: 0818105625.</p>
<p>CGI (Congo Geographic Institute) <i>Objective: Production of the base map of the DRC at a scale of 1/50,000 and its derivatives.</i> Address: 106, Blvd du 30 Juin, C/Gombe; E-mail: Fidele.balibuno@unikin.ac.cd; Tel: 0974449240</p>	<p>RCSARP (Research Center for the Selection and Adaptation of Ruminants and Pigs) <i>Objective: To carry out studies and research in the field of ruminant and pig breeding</i> Address: 45, Av. Lumumba, Q/de la gare, LUPUTA/ KASAI-ORIENTAL; E-mail: tshamal-agabriel@gmail.com; Tel: 0851817370</p>
<p>GMRC (Geologic and Mining Research Center) <i>Objective: To carry out studies and analyses to improve knowledge of the soil and subsoil of the national territory.</i> Address: 44, Av. de la démocratie, C/ Gombe; E-mail: rolandkakule@gmail.com; Tel: 0851506161</p>	<p>NCRS (National Center for Remote Sensing) <i>Objective: Research in remote sensing.</i> Address: PLACE ROYAL IMMEUBLE PLACE ROYAL IMMEUBLE KASAI; E-mail: davidng-indub@gmail.com; Tel: 0815103502.</p>
<p>NIASR (National Institute for Agronomic Study and Research) <i>Objective: To promote the development of agriculture in the Congo. To maintain varieties, multi-local trials, and its farmers, management and conservation of germplasm.</i> Set up a program to monitor and evaluate research activities. To disseminate new varieties. Give the emerging technical department its reason for being, with a view to producing basic and pre-basic seed. Resume publication of the agricultural magazine to disseminate research results. Address: 13, Av. des Cliniques, BP :2037 KINSHASA , C/Gombe; E-mail: domikan-konde@yahoo.fr; Tel: 0818248620</p>	<p>NCROS (National Center for Research in Oral Science) <i>Objective: To carry out studies and research in the field of oral health.</i> Address: 13, 10ème Rue, Industriel Quarter, C/Limete; E-mail: Cnrsbd.rdc@gmail.com; Tel: 0822244152; 0811835159; 0840922982</p>
<p>RCALC (Research Center into African Language and Culture) <i>Objective: To coordinate and carry out all research projects concerning African languages and cultures.</i> Address: 53 C, Av. Makiso, blvd du 30 juin, Kisangani/ Tshopo. Tel: 0851934320</p>	<p>CAS (Congoese Academy of Sciences) <i>Objective: Promotion and dissemination of science, technology, arts and letters. Support for inventive initiatives.</i> Address: Sciences Faculty/ UNIKIN local 28; E-mail: jjmuyembet@gmail.com; Tel: 0813330242</p>
<p>AFRC (Agro-Food Research Centre/Lubumbashi) <i>Objective: To identify processes for processing and preserving basic local agricultural products. To improve the quality of imported or locally produced foodstuffs by applying approved standards and quality control.</i> Help the technological development of the existing agro-industry by providing them with technical assistance wherever possible. Address: 1, Av. Président ILEO, Q/CRAA, C/Lubumbashi; E-mail: Julesnkulu@gmail.com; Tel: 0997131002</p>	<p>MIPRC (Matadi Interdisciplinary Pedagogical Research Center) <i>Objective:--Information science.</i> Address: The buildings of the Matadi Higher Pedagogical Institute; Tel: 0896501462</p>

CONGOLESE REVIEW OF SCIENCES AND TECHNOLOGIES

Published by the National Scientific
Council, Ministry of Scientific Research
and Technological Innovation
Democratic Republic of Congo

ISSN (Online): 2959-202X ISSN Print) :2960-2629 DOI: 10.59228/rcst
www.csnrdc.net

Our review is indexed in the following platforms::



Subscription conditions

Ordinary : 15\$
Support : 30\$
Honor : 50\$

The National Scientific Council (NSC) is the sole supervisory and decision-making body for all research centers and institutes in the DR Congo

In accordance with article 24 of Ordinance-Law n°82-040 of 5 November 1982 on the organization of scientific and technical research, the National Scientific Council is responsible for:

1. to deliberate on the guidelines and priorities of the scientific and technological research plans and programs to be carried out in the country ;
2. to deliberate on the allocation of resources from the State budget to scientific and technological activities;
3. supervising the financial management of research centers and institutes
4. approving the budgets of the Research Institutes and Centers and submitting them to the Minister for Scientific Research for approval
5. approving the organic regulations of the Research Institutes and Centers;
6. proposing to the Minister for Scientific Research the appointment and promotion of scientific and administrative personnel.

For advertisements and partnerships contact us

Printed on April 15th 2026



Boulevard du 30 juin, Place Royal. Immeuble Kasai, 2nd Floor, Left Wing, Gombe Township



Site Web : www.csnrdc.net



Email: contact@csnrdc.net



N°Tél: +243 81 87 96 646; +243 89 85 32 086