



Activity
report
2025

Calypso
Networks Association

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Introduction

from the Chairman

Dear Calypso friends and partners,

We began 2025 facing several important questions: would Calypso mobile NFC ticketing continue to show strong growth, following its iPhone debut in Paris? What would be the future of physical transport cards? Which strategic growth models would prevail in ticketing and transport?

The answers to these questions proved to be more than encouraging. The momentum for NFC mobile ticketing remained strong, with the number of Calypso virtual transport cards hosted on mobile devices now approaching 20 million. As for physical cards, the appetite for secure paper ticket solutions remained as high as ever, buoyed by enthusiasm for Calypso Basic solutions. But what is arguably most instructive to our work is that user feedback indicates that even within the same household, different users have different preferences. This confirms that a hybrid approach that puts choice in the hands of the consumers is vitally important.

What is also becoming increasingly clear, against the backdrop of complex political, economic and technological upheaval, is that public transport operators and authorities must remain sovereign. This sovereignty allows them to develop their services in line with the bespoke needs of local riderships, while also ensuring costs are controlled, cybersecurity is prioritised, and their model is sustainable.

An open and secure standard such as Calypso, based on CNA's model of close industry collaboration, meets these needs perfectly. We look forward to consolidating our position in the ticketing space, and supporting our members as they continue to build and evolve the systems of tomorrow.



Gianluca Cuzzolin
Chairman of Calypso Networks Association

Mission and vision

Delivering on our mission and collaborating on our vision

For more than 20 years, major ticketing players from around the world have joined forces within the Calypso community to build the industry standards and tools needed to develop interoperable, reliable and sustainable systems for mobility.

Public transport authorities and operators, manufacturers of smart cards and contactless terminals, suppliers and integrators of ticketing software solutions, consultancies and more... Over the years, our members have supported a vision of contactless ticketing based on global standards for NFC technology, and on specifications that are open and accessible to all.

Public transport services are facing ever-increasing pressures to secure their investments and infrastructure. Controlling the operating costs of their ticketing system is fundamental to protecting revenues and ensuring long term sustainability.

The Calypso standard has been designed with this in mind. As an open standard, it fosters competitive markets for systems that can be upgraded and maintained by the network with complete control. It helps champion innovation, and favours secure solutions that provide an effective, secure by design fight against technological fraud.

At the heart of Calypso is the belief that public services must be accessible to all, and agile enough to adapt to changing social, demographic and technical realities. By enabling the design of multi-media (card or mobile) and multi-architecture

(centralised or distributed) systems from a single protocol, the Calypso specifications meet the unique needs of distinct demographics across different networks and territories.

However, while the scenarios each region face are unique, the challenges of managing governance and sovereignty are widely shared. In part, overcoming these complexities depends on mastery of ticketing systems and knowledge of the market: this is the aim of Calypso Networks Association (CNA). As a not-for-profit association, CNA has developed, with privileged access for its members, a range of tools and services aimed at facilitating the design of a ticketing strategy and its technical implementation.

Human and collaborative values

Living collaborative values every day

CNA is not a commercial company – it is defined by collaboration and cooperation between its community of members with the shared mission of advancing the contactless ticketing world.

Calypso specifications emerge from the collaborative work of technical committees, to which all members are invited to contribute their expertise. Calypso Networks Association governs these specifications, and is itself managed by an elected Board of Directors. Its day-to-day operations are run by individuals from member companies and a number of full time staff.

CNA regularly brings together its members and users at dedicated events, facilitating cooperative exchanges between parties in the interests of enhancing their respective projects. This is part of CNA's commitment to maintaining a thriving community of contactless ticketing players, centred around the values of cooperation, openness, efficiency, excellence and innovation.

2025 highlights and in numbers

Achievements and highlights

In 2025, CNA continued to follow its technical roadmap to advance standardised, open, accessible and sustainable ticketing systems. The ambitious OpenSAM project made significant progress during its extended specification development phase. Work on the Eclipse Keyple open-source SDK has helped to consolidate its maintainability across diverse environments, as well as its suitability as a technical solution for integrating Calypso into ticketing terminals or distributed systems. The Account-Based Ticketing (ABT) working group, established in 2024, began the second phase of its mission, focusing on operational implementation within the context of pilot projects.

Always keen to stay in touch with its members, the association has launched a new regular online forum, 'Coffee with CNA', designed to provide an informal space for direct discussion with the permanent team. The success of this initiative has reinforced our strategy of openness and collaboration. To ensure that this series is accessible and valuable to as many of our members, we intend to commence dedicated regional editions tailored to time zones outside Europe.

Finally, CNA has actively pursued its strategy to expand Calypso globally and beyond the transport sector, supporting additional use cases including parking and EV charging. In Latin America and Africa, projects based on the standard have continued to develop, and further opportunities have emerged across the region. Furthermore, thanks in particular to our partnership with the SPAC Alliance in Europe, CNA has reinforced the relevance of its technical expertise in the field of access control.

111

Number of members

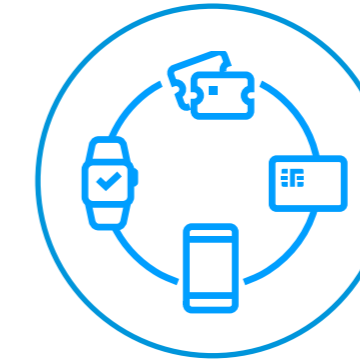
8
New members



6
Active Technical Committees

2,4m+

Calypso HCE mobile ticketing apps



12,5m+

Activated mobile solutions

30

Countries with Calypso deployment



40m+

Estimated daily journeys delivered by Calypso



71

Certified products



41

CNA approved cards

69m+

Travel cards shipped

30,8m

Calypso Prime cards

32,6m

Calypso Light cards

5,9m

Calypso Basic cards



Technical expertise

2025 innovations and achievements

OPEN SAM

The OpenSAM project and its associated Technical Committee aim to specify a new generation of Calypso security modules. Once defined, the group will then work to provide users with the tools and procedures required for their manufacture.

2025 saw significant progress made on technical specifications and draft test cases for card transaction and SAM (Secure Access Module) management. So far, these developments primarily relate to the testing tool (notably incorporating a test plan review mechanism) and the OpenSAM applet (Secure Copy Protocol or SCP).

ECLIPSE KEYPLE

Eclipse Keyple is an open-source Software Development Kit (SDK) that provides reference libraries to facilitate the implementation of Calypso processing in a ticketing terminal. This makes the software independent to the hardware, mitigating concerns of vendor lock-in, and provides the high-level functions required to securely process Calypso transactions.

In 2025, new features for processing media such as memory cards (CTS25, ST25, Mifare Ultra Light) were added to facilitate the migration of existing systems to Calypso secure solutions.

In addition, significant refactoring of Keyple has improved maintainability and supported continuous integration in various environments, as we continue our work porting the SDK to C++ to ensure that Keyple can be integrated into any type of terminal on the market.

MOBILE

Since 2024, Calypso has been compatible with all types of commercially available mobile devices, and against the backdrop of continued digitalisation across almost every vertical, this functionality must be maintained at all costs. This is why CNA has continued its maintenance work on the Calypso applet, version 2.2, which is now available to its members (and which is also used on Java Cards).

Furthermore, the emergence of new ticketing projects based on the Calypso HCE solution has led the Mobile Technical Committee to consider further updates to the specifications, to be published in 2026, including alignment with the latest features specified for cards (including PKI) and updates to security requirements.

TERMINAL

Ensuring that ticketing terminals comply with the latest Calypso specifications is more crucial than ever for ensuring interoperable and sustainable systems. CNA has continued to support manufacturers through the Calypso compliance verification programme (based on self-declaration) and online registration, which is an important first step towards certification.

CNA continues to actively participate in the Smart Ticketing Alliance (STA) Certification Working Group, with the aim of bringing together stakeholders at European level to address the challenges of this open standardisation of ticketing terminals.

People at the heart of our projects

Administrative structure and governance

2025 saw the departure of two of CNA's Vice-Presidents: Mario Pedro, who left ENBI in Angola, and Thierno Aw, who left CETUD in Dakar to take on new responsibilities at the World Bank. CNA would like to take this opportunity to thank them for their valuable service on the Board of Directors and their involvement in the Steering Committee.

Furthermore, **Philippe Vappereau**, former General Manager of CNA, was awarded the title of Honorary Chairman of CNA, in recognition of his outstanding contribution to the association's development.

Finally, the Permanent Team was delighted to welcome **Lydie Frénois** as Events and Operations Assistant.



HONORARY CHAIRMAN
Philippe Vappereau

The 2025 General Meeting

CNA's 2025 General Assembly was hosted online on 25 June 2025. At this meeting, the decision was taken to not replace the two departing Vice-Presidents as, with the 2026 Board elections fast approaching, it was deemed inappropriate to issue an additional call for nominations to serve a single-year term. Consequently, Alexandre Domingues (TML) and Alain Caffard (CTS) remained as the only two Vice-Presidents.

Steering Committee

As of 31 December 2025, the CNA Steering Committee is composed of a Chairman, two Vice-Chairs, a General Secretary and a Treasurer.

The next election for these positions will be June 2026 in a vote by members of the Board of Directors.



CHAIRMAN
ACTV - Venice, Italy
represented by Gianluca Cuzzolin



GENERAL SECRETARY
Landkreis Konstanz, Germany
represented by Zeno Danner



TREASURER
Eric Baele



VICE CHAIRMAN
Alexandre Domingues
TML - Lisbon, Portugal



VICE CHAIRMAN
Alain Caffart
CTS - Strasbourg, France

Board of Directors

CNA is managed by a Board of Directors appointed by the General Assembly every three years. The next election will be held at the General Assembly 2026.

As of 31 December 2025, there are 19 board members, represented by 20 officers.

Three new representatives joined in 2025: Edgard Bruno Costa representing ENBI, Gora Sarr representing CETUD, and Carlos Arturo Gonzalez Gordillo representing SEMOVI.



ACTV - Venice
Represented by
Gianluca Cuzzolin (Chairman)



ST - Torino
Represented by
Massimo Cocozza



ATM - Milano
Represented by
Paolo Fiorino



BMC - Belgium
Represented by
Jim Van den Rijse



CETUD - Senegal
Represented by
Gora Sarr



CARTES BANCAIRES - France
Represented by
Ludovic Verecque



SNCF - France
Represented by
Joël Eppe



STIB - Belgium
Represented by
Jean-Luc Van Ginder Deuren



TML - Lisbon
Represented by
Alexandre Domingues



UNICOCAMPANIA - Campanie region
Represented by
Guido Cangiano



CTS - France
Represented by
Alain Caffart



ENBI - Angola
Represented by
Edgard Bruno Costa



ÎLE-DE-FRANCE MOBILITES - France
Represented by
Laurent Probst



INFINEON
Represented by
Björn Scharfen



INTERPARKING
Represented by
Roland Cracco



LANDKREIS KONSTANZ
Represented by
Zeno Danner



RATP - France
Represented by
Agnès Coughard and Yann Poirier



SEMOVI - Mexico
Represented by
Carlos Arturo Gonzalez Gordillo

Permanent Team

CNA is led by a world-class team of industry experts, each of whom bring extensive knowledge and experience from diverse roles throughout the transport and mobility sectors. The team operates from Paris, Brussels, Lisbon, Konstanz and the Island of la Réunion to support CNA and its members.



Yann Chermat
COO



Naomi Ohira
Finance Officer
and Assistant



Ralph Gambetta
Institutional relations and
regional promotion



Manon Chaix
Communications and
Marketing Manager



Lydie Frénois
Events and Operations
Assistant

Technical Experts Pool



Ludovic Teixeira Costa
Technical Expert
Certification and Mobile



Paulo Barreto
Technical Expert
Calypso Range of Products
and Open SAM



Pierre Terrée
Technical Expert
Eclipse Keyple and Applet

Advisory Board

The CNA Board of Directors continues to work with the Advisory Board of adhering members. As a rule, the Advisory Board holds at least one yearly joint session with the Board of Directors to discuss emerging market trends and real-world insights from relevant industry stakeholders.

The Advisory Board continues to play a committed and important role in the day-to-day work of the association.

On 11 September 2025 in Lisbon, members of the Advisory Board presented their position to the CNA Board of Directors regarding the growth drivers for the Calypso standard and brand.

In particular, they discussed the role of consultancy firms in promoting Calypso and the importance of highlighting the technical and economic benefits of an open standard.

They highlighted that CNA could draw on its heritage as an industry leading association to offer its expertise on topics including effective integration and development tools, presenting Calypso as a high-performance foundation for the ticketing systems of the future.

› **Louis Brosse**
Wizway

› **Cristiano Pardo**
HID Global

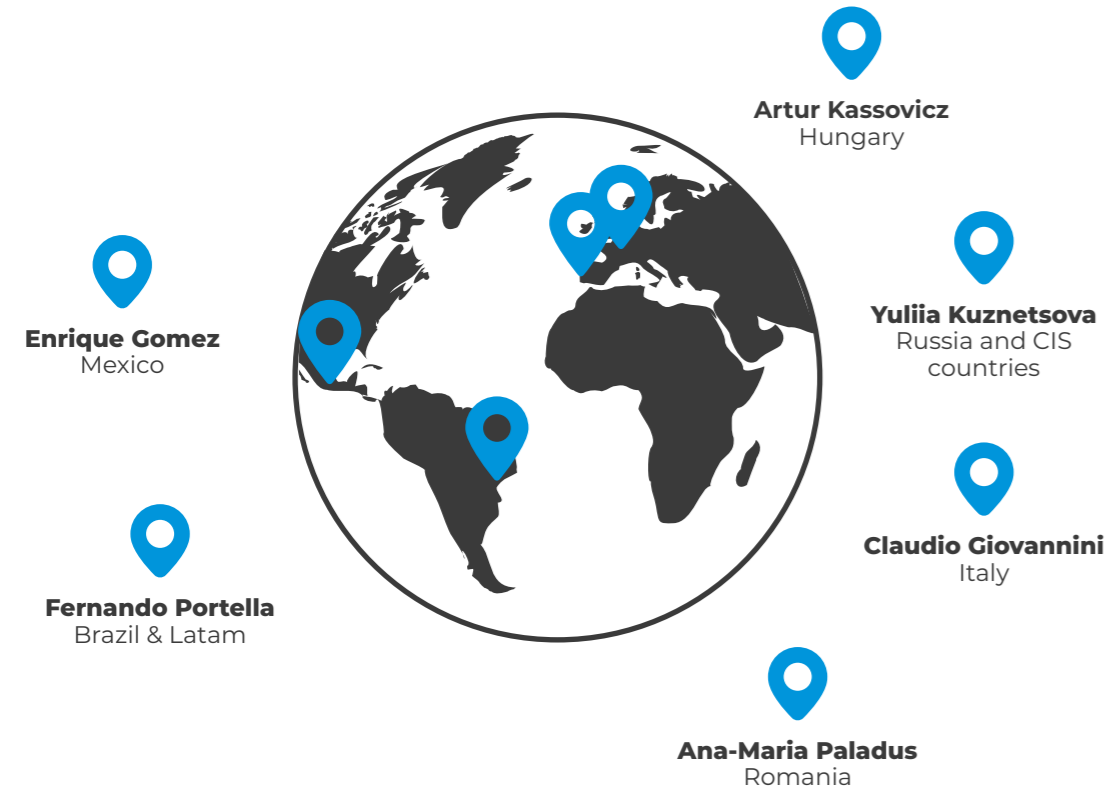
› **Maria Ramirez**
Thales

› **Frédéric Sauvayre**
Infineon

› **Christian Senly**
Cubic

CNA consultants around the world

The core team also benefits from local support across the globe. Our extended team is available to answer any local questions with their deep regional knowledge and can also act as a bridge to CNA's global experts.



Members

CNA's diverse membership is one of its most unique and valuable assets.

Its members represent the entire ticketing ecosystem, bringing together political authorities, transport authorities, associations, transit and service operators, manufacturers in the field, research and development organisations, and consultants.

All these diverse points of view enable developments of the Calypso Open Standard in direct response to market needs and expectations. Each perspective provided by members helps to define and create a range of complementary ticketing solutions that can work together as part of a harmonious and accessible open standard.

It is thanks to the users of Calypso sharing their different experiences and requirements that the Calypso Standard has evolved to offer rich solutions that no other technology can match. CNA provides a comprehensive and relevant overview of customer needs to suppliers of Calypso products and solutions, enabling them to propose an appropriate offer in a timely manner.

It is CNA members who define the future of the Calypso Standard, with the help of an unrivalled team of experts that listen to their needs and collaborate to meet evolving expectations.

CNA members are the driving force behind change,

requesting, producing and implementing ticketing innovations based on the Calypso Open Standard. CNA would like to thank them for their constant collaboration and creativity, which continually enriches the standard.

The Calypso Awards celebrate our active, inventive and inspiring members.

In 2025, the following 2 winners were honoured at the awards ceremony, for innovations helping to shape the future of smart and accessible public transportation: transport passes for com

- **Best Customer Value, TML - Transportes Metropolitanos de Lisboa**

This award recognises Calypso users delivering innovative services that make public transport more accessible and convenient. TML was awarded for its Navegante® Empresas product, an innovative solution that simplifies access to public transport passes for commuters and families, making affordable, sustainable travel a more convenient option for the people of Lisbon.

- **Best Innovation, Billettique Services**

This award celebrates providers developing new Calypso products, components, or processes that advance global ticketing. Billettique Services won for its integration of the open-source SDK Eclipse Keyple into terminals, significantly reducing system maintenance time and costs, and enabling savings to be passed on to passengers.



List of members as at 31 December 2025

	CTS	KUBA	SEMOVI
	CUBIC	LANDKREIS KONSTANZ	SETEC
	DATARAXYS	LINK CONSULTING	SIBS CARTÕES
	DIGIMOBEE	LINXENS	SIGMA SPA
5T	ECMAC	LOGIPLUS	SNCF
AVM	EDY NOGA TECHNOLOGY	MATAWAN	SNCF CONNECT & TECH
ADCET	ELITT	MERCADO LIBRE	SOCIETE DE TRANSPORT DE MONTREAL
ADVANIDE	ENBI	METROPOLITANO DE LISBOA	SOLARI DI UDINE SPA
AEP	EXCEET CARD GROUP	MICROSAFE	SONDA
AGILTECH	FAMOCO	MIKROELEKTRONIKA	SPAC ALLIANCE
AMBB TECHNOLOGIES	FIME	MK SMART	SPIRTECH
FLOWBIRD by ARRIVE	GAPLET	MONETECH	SPRINGCARD
ASIS ELEKTRONIC	GCN ITS	MPESO	ST MICROELECTRONICS
ASSTRA	GIESECKE & DEVRIENT	MUNICIPIO DE LA PAZ BCS	STIB
ATENCION EFICIENTE	GOOGLE	MYCARD	STid
AUROTRANSIT	HID GLOBAL	NAGELS	THALES DIS
AZIENDA TRASPORTI MILANESI	IALTO	NOUVELLE AQUITAINE MOBILITÉS	TISSEO
BILLETTIQUE SERVICES	ICUBE	NR TEC DESAROLLOS TECNOLOGICOS	TML
BILLING PAY	IDEAR ELECTRONICA	OAKLEN CONSULTING	TPBI
BMC	IDEMIA	ORMAES	TRANSDATA
CALMELL GROUP	IDFM - ILE DE FRANCE MOBILITES	OTW	TTID TECH
CARD4B	INFINEON	PARAGON ID	UNICOCAMPANIA
CARRIS	INSITRA	PLANETA	WATCHDATA TECHNOLOGIES
CB	INTERPARKING	PRODATA MOBILITY BRASIL SA	WIZWAY
CETUD	ISRA CARDS	RATP	XIAMEN LENZ COMMUNICATION CO
COMUTITRES	ITSO	RATP SMART SYSTEMS	
CONDUENT BUSINESS SOLUTIONS	JM ASESORES Y SERVICIOS	RIGAS SATIKSME	
CONFIDEX	KENTKART	SCHEIDT & BACHMANN	
CONSEIL REGIONAL DE BRETAGNE	KEOLIS	SELP	
CORVUS DATA S.A. de C.V.	KONTRON PUBLIC TRANSPORTATION NV	SEMATAN	

New members

Collaborative working groups

CNA specifications are the result of working groups in which all members are invited to participate.

We are proud

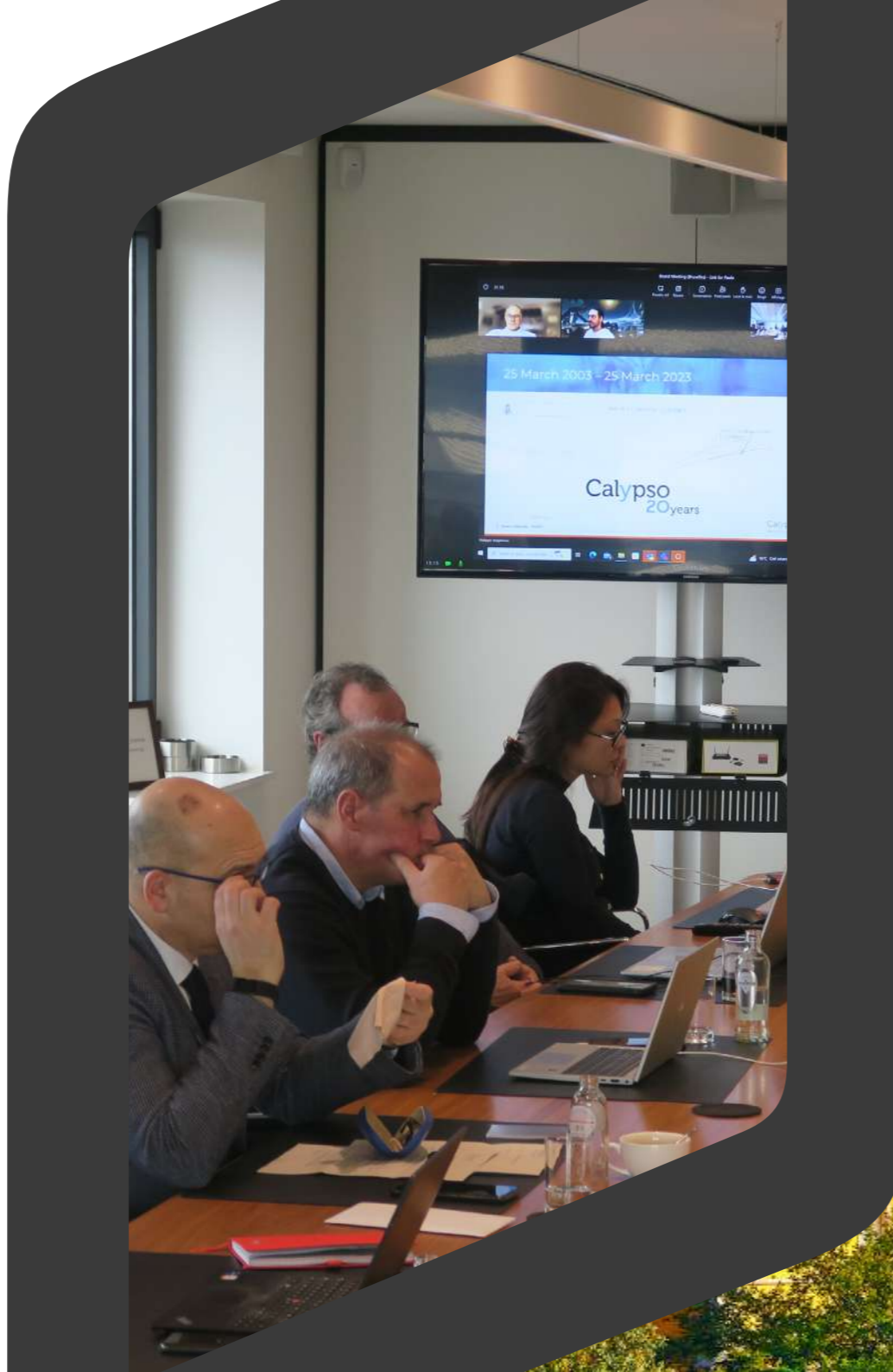
to have between 80 and 100 registered participants (active contributors or followers) on each of our Technical Committees (Card, Terminal, ABT, Mobile, SAM & Security).

New groups can be formed on specific topics, depending on the needs expressed by members and the latest developments in ticketing.

CNA is keen to extend this collaborative, constructive dynamic through exchanges and partnerships with other associations or groups, to share strategic views on open standardisation and broaden the potential scope for Calypso adoption.

This spirit of collaboration was on show throughout 2025, particularly via two valuable cross-membership relationships with:

- **ITxPT**, a non-profit association that publishes open, standards-based IT architecture specifications for on-board, over-the-air and back-office IT systems. The complementary nature of the ITxPT and CNA specification frameworks enables the standardisation and certification of large-scale transport IT infrastructures.
- **The SPAC Alliance**, which brings together various players in access control and cyber security in Europe. Key areas of collaboration including promoting Calypso as a standardised, secure access control solution, and sharing expertise on the security challenges arising from the European regulatory framework.



Training and skills development

CNA was originally formed to manage and develop the Calypso Standard. However, to enable Calypso to be truly adopted by all players in the ticketing community, it became necessary to support its implementation and use.

This is why,

for several years now, CNA has been making major efforts to offer a range of training, consulting, expertise and technical support services that promote the adoption of the Calypso Open Standard. These are aimed at all parties who use or plan to use Calypso, whether they are operators, suppliers or consultants.

In 2025, training sessions were organised with Italian members (including AVM, ATM Milan, 5T, Unicocampania), TML in Lisbon and several French organisations in Paris.



Promotion and geographical expansion

Promoting Calypso worldwide is critical to its continued expansion

In addition to its unrivalled performance, the success of the Calypso Standard also depends on it being adopted by as many players as possible.

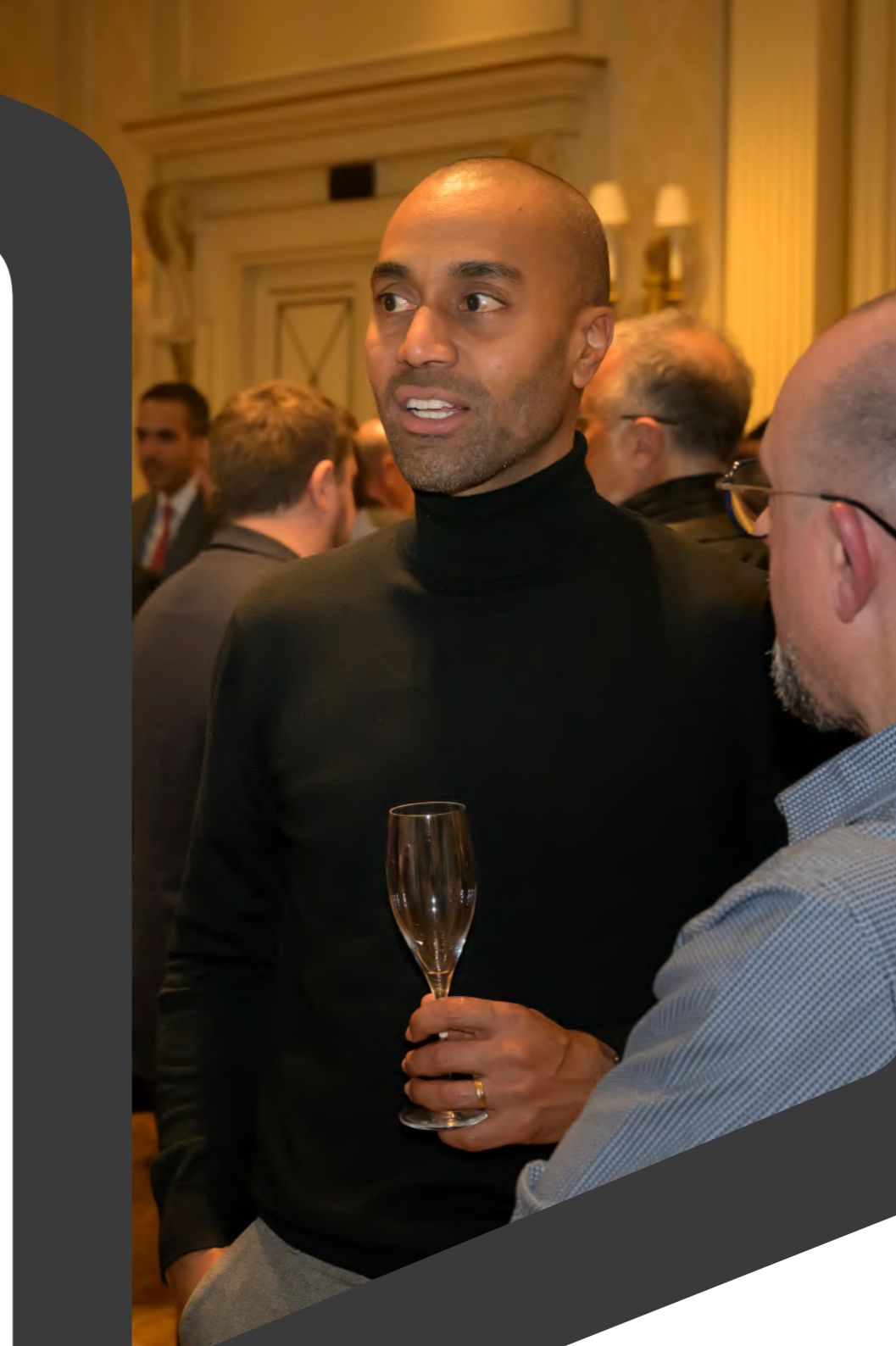
To this end, CNA has set up contributors in specific countries, within the limits of its resources, to better understand the needs of the local market, explain the benefits of Calypso and liaise with the permanent CNA team.

In 2025,

we widened our outreach thanks to the successful operations of our offices in Mexico (Mexico City) and in Brazil (São Paulo). Our experts provided crucial contributions to local stakeholders, communicating clearly on the latest developments in Calypso technology and supporting local promotion. As shown by lighthouse projects such as the new passenger services on the Mexican rail network or the membership of the municipality of La Paz (Baja California Sur), we are increasingly engaged in helping operators and authorities around the world in delivering a sustainable, highly secure ticketing offer across their network(s).

In the African market, we continued to deepen our cooperation with local stakeholders by extending our work in Senegal and Angola to other countries including Burkina Faso and Morocco.

We have also deepened our presence in the European market through cooperations and strategic partnerships with institutional bodies including Asstra, the Italian transport operator association, and TBPI, the Bucharest transport authority.



Communication and project visibility

Communication strategy

In 2025, Calypso Networks Association continued to refine its communication strategy. The objectives of this work were to increase the visibility of Calypso open standards, highlight their continued relevance across a wide range of use cases, and continue to build a committed international community.

This strategy is based on a clear and consistent editorial approach, centred on the regular production of high-value-added content (market analyses, educational materials, news, and expert commentary), distributed through a multi-channel ecosystem including the website, LinkedIn, newsletters, press relations, and in person at events around the globe.

Particular attention has been paid to stakeholder engagement, by fostering direct interactions with members, partners, and industry players, and by leveraging CNA's international network to relay messages and amplify their reach.

Communication highlights

2025 was marked by wide-ranging content production and the launch of new initiatives aimed at diversifying formats and enhancing the impact of communication efforts.

Highlights included:

- **Industry insights**, including articles on ticketing trends, news announcements, and contributions to specialised media
- **Regular newsletters**, redesigned in both content and format to promote member engagement
- **Sustained activity on LinkedIn**, with over a hundred posts throughout the year
- **New community formats**, most notably the "Coffee with CNA" online forums
- **New and updated institutional materials**, including a new brochure on Calypso technologies and use cases, as well as updates to the association's presentation documents

These initiatives reflect a commitment to diversifying engagement, enhancing educational outreach, and showcasing CNA's international expertise.

Increasing awareness and visibility in a changing world

CNA's visibility continued to proliferate around the world in 2025.

On social media, the LinkedIn community record a sharp increase in engagement, exceeding the platform's benchmarks. This trend reflects a more qualified and engaged audience, in line with a more targeted content strategy.

Newsletter performance also saw a notable increase, with a sharp rise in open rates and click-throughs, reflecting recipients' growing interest in the content offered.

Furthermore, the website reaffirmed its central role in disseminating CNA resources, with an increase in the number of downloads and greater engagement with technical and institutional content.

Finally, CNA strengthened its international presence, expanding its audience across all channels in new geographic regions, particularly in South America and West Africa, helping to solidify its position as a leading global player.



New strategic partnerships

Our communication strategy also helped open up new avenues for collaboration, particularly in developing regions and those with high growth potential.

The increased visibility of CNA, combined with content tailored to local issues and participation in international events, has fostered the emergence of new contacts and partnership opportunities, particularly in South America and West Africa.

These developments reflect CNA's ability to expand its network and strengthen its influence among new players in mobility, transport ticketing, access control, EV charging and parking.

Established partnerships

Looking into our network of institutional relations, we have continued our liaison agreement with the NFC Forum and contributed to its Mobility Identity and Transport Special Interest Group (MIT SIG).

On the UITP IT&I Committee, we have accomplished the chairmanship mandate and continued to streamline its ticketing initiatives. We have continued to review the editorial work of a new "Demystifying Ticketing" document and have shaped the future topics to be addressed across the UITP's future ticketing platforms.

With the Smart Ticketing Alliance, we have further supported them through the second chairmanship mandate and actively supported its working groups across certification, Account-Based Ticketing (ABT) and nationwide ticketing.

We have also been once again active contributors and members of the following associations:

- ADCET
- Asstra
- ATEC ITS
- Club Italia
- Codatu
- Eclipse Foundation
- SPAC Alliance
- Ukrelektrotrans

Events worldwide

Events, whether as exhibitors, speakers or participants, are one of the major levers for increasing the association's visibility and reputation. They also provide an opportunity to publicize the Calypso standard, its applications, and the values that underpin the standard for CNA members. 2025 gave us many opportunities to gather CNA members throughout the transport ticketing industry.



< 3 April
Paris, France

Partners Day

A day of discussions between stakeholders in the transport sector, CNA experts and members of the advisory committee, focusing on developments in Calypso and its new areas of application.



10 April
Budapest, Hungary

10th Smart Ticketing & Digital Services Forum

A day of themed discussions on developments in the transport sector, focusing on rail ticketing, national experiences and the role of artificial intelligence in optimising processes and enhancing the user experience.



12 May
São Paulo, Brazil

Calypso Smart Ticketing, a chave da governança

An international conference focusing on the challenges and opportunities facing public transport in Latin America, bringing together regional experts and highlighting the impact of Calypso across the region.

UITP Summit



15 June
Hamburg, Germany

Participation in the world's leading public transport summit, bringing together over 10,000 professionals, showcasing innovations and partnerships related to Calypso.



29 October
Venice, Italy

User Days

Two days of collaboration dedicated to sharing real-world experiences and use cases, technical training and promoting the use of Calypso within the international community.



< 3 December
Paris, France

The annual Open Session

Our flagship event, headlined by the presentation of the coveted Calypso Awards.

3 December
Paris, France

The Open Tech Day

An opportunity to present the latest developments in Calypso technologies and the results of the Technical Committees.

In addition to its own events, CNA was present and active across a range of leading international events.

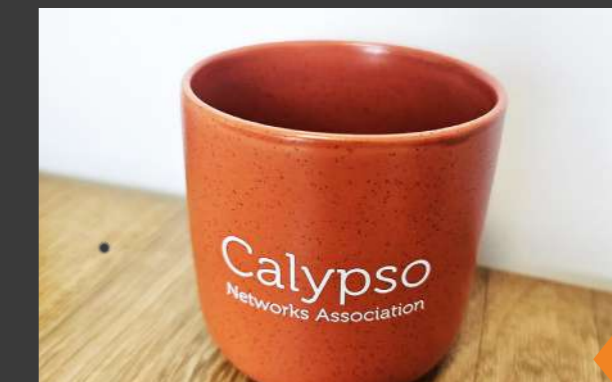
We were able to meet with our members and various stakeholders in the ticketing sector to discuss Calypso and its achievements and explore opportunities for new collaborations: at Transport Ticketing Global in London, UK; the Rail Industry Summit in El Jadida, Morocco; the RNTP (Rencontres Nationales du Transport Public) in Orléans, France; and the Transportes Metropolitanos de Lisboa (TML) Ticketing Conference in Lisbon, Portugal. The association also took part in the UITP Summit in Hamburg as an exhibitor.

Our promotional activities led us to take part in dedicated events organized by our partners, such as the Kontiki events in Germany, the Club Italia events in Rimini and Siena, the Asstra event in Cagliari and the Economic Forum in Karpacz. These events

provided an opportunity to keep pace with local developments in the transport and ticketing sectors and to consider the prospects for an open standard such as Calypso.

Our booth at the CB Summit and our presentations at the SPAC Alliance booth at the APS exhibition in Paris - an expert event for the security community - provided us with opportunities to meet key players in the contactless sector beyond the transport industry and to reaffirm Calypso's prospects and relevance in areas such as bank cards and secure access systems.

Finally, to keep up to date with the latest major projects, issues and trends in transport and security, we had the opportunity to take part in multiple conferences and think tanks such as those organised by Mobilise Your City, MEDEF International and ADCET.



Coffee with CNA

Launch of quarterly online sessions in 2025 to boost communication and foster closer ties among the association's members, via a relaxed online space to connect, ask questions and share ideas.

< Visio Teams

Resources

for the CNA community

CNA is committed to providing free, valuable resources for the contactless ticketing community including eBooks, guidebooks, one-pagers, case studies, brochures and blogs.

Calypso Documentation Library

Access all the technical and non-technical documentation about Calypso, and CNA services, with our comprehensive technical documentation library.

One-pagers

For all you need to know about Calypso Prime, Prime PKI, Calypso Light, Calypso Basic, Calypso for Mobile, Keyple and more, our short guides provide the perfect introduction, all available via our website.

Calypso handbook

The CNA Handbook provides an extensive guide to the role, offering and governance of the Calypso Standard. It is a must-read for both existing and potential users of the technology.

Training programme

View CNA's full training brochure with details of all modules, as well as information on how to arrange bespoke training tailored to specific requirements.

Guide for calls for tenders

This document outlines what is required in a call for tenders for Calypso contactless cards, NFC mobile ticketing systems and terminals, to guarantee compatibility and scalability.

Newsletter

[Subscribe](#) to CNA's bi-monthly newsletter to stay up to date with the latest news, events and insights from the organisation. Your email address will not be shared with third parties and you can unsubscribe at any time.

Insight articles and news

Visit CNA's official blog page, Transport Ticketing Trends, to get the latest insights and commentary from the CNA team and its member community. This page regularly features insight and commentary on contactless ticketing advancements, opportunities and challenges. Articles included how Keolis is using Calypso to better serve occasional passengers, and key takeaways from our Smart Ticketing event in Brazil.

Available via the CNA newsroom online, you can also read the latest updates and announcements from the association, as well as Q&As with our experts.

Events

CNA offers a [global programme of events](#) for members and non-members throughout the year. Check the website regularly for details.

Financial statements

Mobile ticketing using the Calypso Open Standard accelerated rapidly in 2025, with activations increasing by 265% year-on-year, reaching nearly 15 million.

Additionally, despite a predicted slowdown in production due to high stock levels, physical ticketing media continues to underpin large-scale, interoperable operations globally: nearly 70 million Calypso smartcards were shipped in 2025.

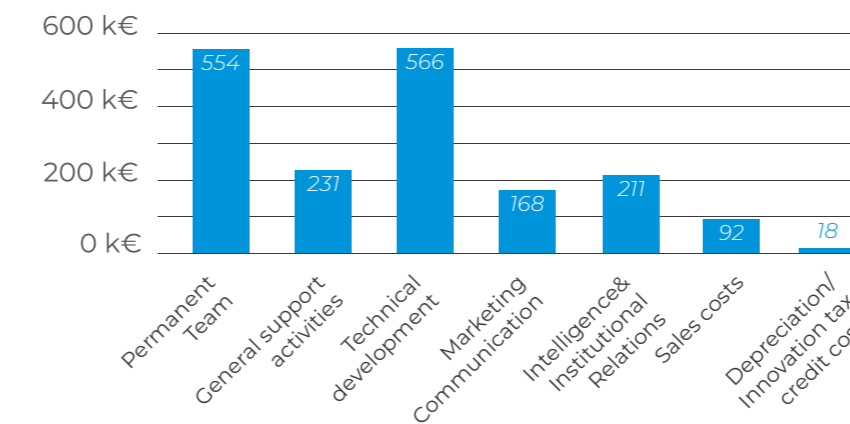
As a result, licence revenues increased by nearly 4%, while memberships and sales of services remained at a level comparable to that of 2024.

Therefore, CNA was able to maintain its high level of investment in technical work and in promotional and communication initiatives.

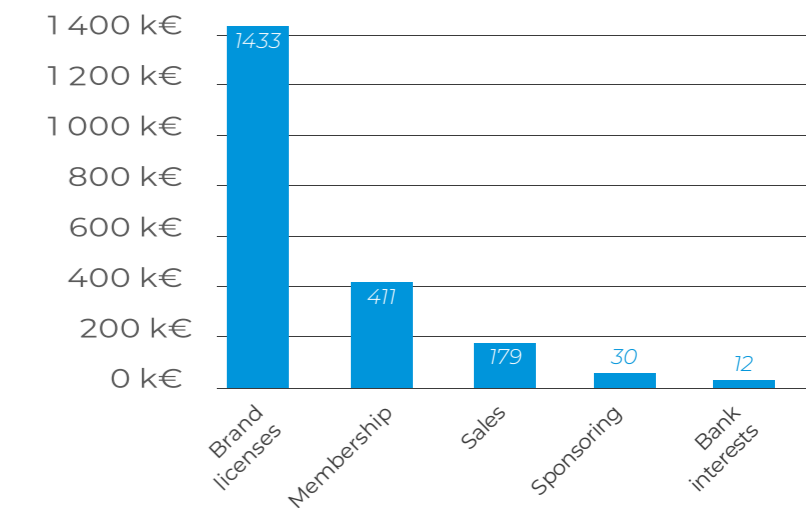
The association ended the year with a positive balance of €223,000, confirming its financial security and its ability to continue investing.

2025 Result (k€)	
Turnover	2065
Expenses	1840
Taxes-Innovation tax credit	2
RESULT	+ 223

2025 Expenses



2025 Turnover



2026 outlook and objectives

Technological Development

The OpenSAM project will remain the flagship initiative, and its progress in 2026 will be crucial to enabling the first production runs in 2027. This includes finalising the development of testing tools and defining the licensing and certification processes.

In addition, CNA will continue its collaborative work on ABT: the Technical Committee (TC) will publish a first draft of the specifications and will then focus on operational requirements raised by some of its members.

CNA's contribution to the Eclipse Keyple open source project will also remain very active. We remain focused on facilitating the integration of Calypso within multiple ticketing equipment environments. In particular, we are preparing for the upcoming launch of OpenSAM by incorporating the necessary features into Keyple.

The Mobile TC will support the continued growth of CNA's HCE (Host Card Emulation) offer, integrating Public Key Infrastructure (PKI) features and standardising the specifications and security requirements across all mobile platforms.

Finally, 2026 looks set to be the year Hoplink makes a comeback as a practical solution for interoperability and seamless travel on a national and international scale: several French urban and regional transport networks have expressed their wish to join the Hoplink Alliance as part of their ticketing projects, and discussions are currently underway within CNA regarding the development of Hoplink's functionalities and its use at various transnational levels.

Expansion and global growth

In 2026, CNA will continue its promotional and support activities in America, Africa and Europe, where Calypso's momentum and interest in its benefits show no sign of waning. In particular, supporting expanding and emerging projects in Angola, Brazil, Mexico, Morocco, Senegal, and South Africa will remain a priority for the association.

To this end, CNA will maintain its network of local experts; invaluable ambassadors who are attentive to the needs of the regions in which they are based.

CNA will also maintain active participation in strategically important international electronic ticketing and mobility events, such as Transport Ticketing Global in London and MobCo (formerly EuMo Expo) in Paris. In addition, the association will take part in the International Conference on Sustainable Mobility and Climate, organised in Abidjan, Ivory Coast, by Codatu, the Greater Abidjan Urban Mobility Authority (AMUGA) and the Climate Chance Association.

Finally, following growing interest in access control and EV charging applications, the association will continue to explore new use cases for the Calypso Standard and monitor emerging needs.





Cooperation and human resources

CNA aims above all to be a collaborative space for its members. With this in mind, the CNA team will continue to facilitate engagement, the sharing of experience, and genuine cooperation between cities and regions where ticketing projects have similar contexts and challenges.

The collaborative model is and will remain at the heart of the association's operations. The model guarantees the way in which Calypso meets the operational needs of the mobility and access control, the technical excellence of the specifications and tools, and a long-term vision of digital strategies based on standardisation.

It comprises various technical committees, chaired by experts dedicated to developing and maintaining the Calypso Standard in its various fields of application; the Board of Directors, in charge of the strategic line and validating publications; support from the Advisory Board of industrial members; and user groups such as the Hoplink college.

To support its members and continue delivering actions that drive growth, CNA will need, more than ever, to invest in a strong permanent team, whose resources will be increased to take better charge of projects and day-to-day tasks.



Conclusion

2025 confirmed CNA's strong momentum and highlighted the growing potential for Calypso to be adopted as an open standard in mobility and access control.

In a world undergoing constant digitalisation and facing growing cybersecurity challenges, Calypso is more relevant than ever as a benchmark for interoperability, security, quality and resilience. CNA's global collaborative model will also continue to ensure that the technical solutions offered are tailored to the diverse realities of ticketing networks and that these solutions remain independent from private interests – and therefore sustainable.

Our strength lies first and foremost in our human capital. Our members' involvement in working groups and events is our driving force. You too can join our professional community to become part of a virtuous circle, continually advancing open, strategic, responsible and inclusive contactless electronic ticketing.

Join the CNA community

As the governing body of Calypso technology, Calypso Networks Association (CNA) was founded with one simple aim: to enable all transport and mobility operators to deliver the best possible ticketing experience to their customers. Over the last twenty years, we have created a vibrant community in which our members are at the heart of CNA. They define and drive every aspect of the organisation.



Member benefits

All CNA members benefit from greater ownership over the smart ticketing ecosystem via:



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