



Open Charge Alliance Annual Report 2025



Vision and mission



The Open Charge Alliance (OCA) is a non-profit organization founded in 2014. With members from all over the world, we focus on open standards that advance the development of sustainable charging solutions.

Our vision

We envision a world with convenient, efficient, and secure EV charging infrastructure – open to every type of company, product, user and business model. We promote and enable open, flexible EV charging networks to power global EV adoption.

Our mission

We foster the global development, adoption, and universal interoperable use of communication protocol standards for EV charging infrastructure. Through collaboration, education, mutual compatibility testing, and certification, we support an open EV charging environment that encourages innovation and expands choice. We help deliver a reliable charging experience for consumers and regulators worldwide, and we assist the industry and EV drivers in the transition to electric mobility – for a sustainable future.

Organizational structure

OCA Board



The Open Charge Alliance is guided by its [board of directors](#), which oversees the organization's strategic direction, legal responsibilities, and the implementation of the annual plan. In 2025, OCA welcomed a new member; Jacob Betz from Vector, to the board. Additionally, Karl Weinreich has taken over Sunil Daryanani's position on the board on behalf of Shell Recharge.

These board members bring diverse perspectives and expertise, helping to guide OCA's priorities and ensure accountability, transparency, and long-term sustainability. The board meets once per month.



Onoph Caron
ElaadNL
Chairman of the Board



Peter Veale
ESB Ecars
Permanent Board member



Karl Weinreich
Shell Recharge
Permanent Board Member



Kor Meelker
Chargepoint Inc.
Elected Board member
2024-2026



Jacob Betz
Vector Informatik
Elected Board member
2025-2027



Lonneke Driessen
Director of OCA



Brendan McMahon
Special Advisor to OCA



Message from the Director

Lonneke Driessen



In 2025, EV charging infrastructure has continued to expand globally. Charging infrastructure is becoming more integrated into existing ecosystems. At the same time, charging infrastructure deployment continues to grow, increasingly so in emerging regions.

OCA has continued to support the industry in this expansion. Its participants and activities increasingly reflected the global and connected nature of our industry.

A key milestone at the start of the year was the release of OCPP 2.1 Building on OCPP 2.0.1, this version supports smarter, more efficient, and more user-friendly charging solutions. OCPP 2.1 supports advanced integration with payment systems, energy management systems, EVs and the electricity grid.

In close collaboration with the International Electrotechnical Commission (IEC), OCPP 2.1 was accepted as an IEC standard, further strengthening alignment between industry-driven development and international standardization.

Security remained a central focus throughout the year. To address the growing importance of protecting charging infrastructure and charging station management systems, we launched a dedicated Cyber Security Task Group. Its work focuses on aligning OCPP with global security standards and regulatory requirements and improving protection of charging infrastructure as a whole

We also continued to strengthen the foundations of interoperability and trust. This included actions to protect the proper use of the OCPP Certification Mark, improvements to make the OCPP certification program more efficient and affordable, and the introduction of OCA's first Golden SUT partners to support more consistent testing.

To keep extending in a wider range of emerging markets, we launched a new Regional and Regulatory Group and published white papers on OCPP and mobile payment solutions in India and Africa, showing that OCPP could be applied globally while remaining practical and interoperable.

All of this work is the result of collaboration. It is made possible by the continued commitment of OCA staff and the many contributors from across the industry who actively participate in our working groups and task groups. I thank everyone who contributed their time and expertise in 2025.

Looking ahead, stability and continuity remain essential. OCPP has supported charging systems worldwide for more than a decade, and we will continue to improve it together. We invite you to keep working with us and to share what we can do better, differently, or more efficiently. One thing remains unchanged: OCA is here to support the industry and will continue to in the coming years



Organizational structure



Working groups

OCA has three active working groups: the Compliance Working Group (CWG), the Technology Working Group (TWG), and the Regional & Regulatory Requirements Working Group, which launched in September 2025.

In 2025, four task groups were formed under the TWG to address emerging developments and industry needs. These task groups bring together OCA staff and participants to collaborate on key discussions and ongoing work related to the Open Charge Point Protocol (OCPP). The OCPP 2.Lite Task Group concluded its work in 2025.

Every OCA participant is invited to join one or more groups and take part in shaping the future of OCPP.

Ambassadors

In 2024, OCA elected four ambassadors that represent different regions: Amanda Brock (UK & EU), Kor Meelker (EU & NA), Rish Ghatikar (NA & India) and Riccardo Pagliarella (Oceania & Asia). These ambassador roles remained unchanged in 2025.

Their role is to serve as a connection point between OCA and their local communities, increasing the visibility of OCPP. Apart from that, the OCA ambassadors share their expertise with the global OCA network through webinars, creating more involvement from the market in shaping OCPP.



Paul Klapwijk
OCA
CWG chair



Lonneke Driessen (A.I.)
OCA
Regional & Regulatory
WG Chair



Jacob Betz
Vector Informatik
TWG chair



Amanda Brock
CEO OpenUK



Kor Meelker
Senior Director
Global Standards
Charge Point



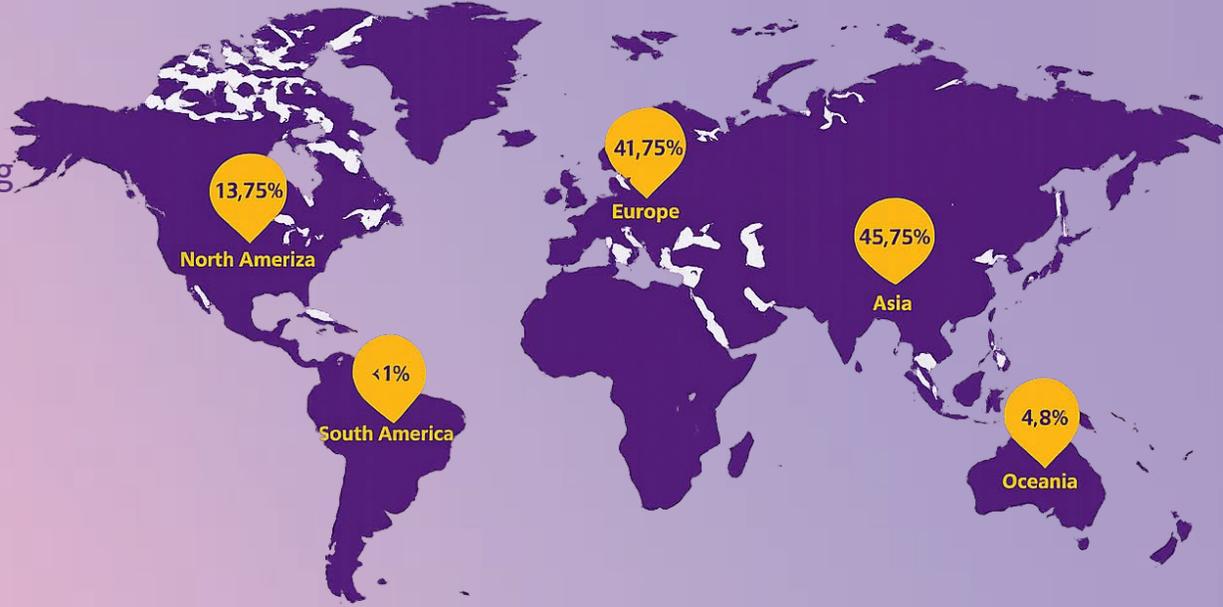
**Riccardo
Pagliarella**
Co-founder
Greenergetic



Rish Ghatikar
Strategic advisor

Our participants

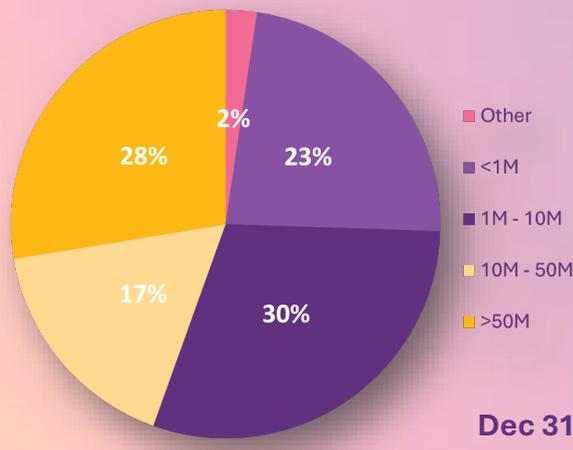
By December 2025, OCA counted 400 participants worldwide, representing a wide range of industries and perspectives. Our community includes manufacturers of Charging Stations and Charging Station Management System, grid operators, vehicle manufacturers, software providers, and testing labs. From major global corporations to local start-ups, our participants bring diverse expertise and shared commitment to OCA. This global collaboration ensures that OCPP evolves in step with the industry's needs and remains accessible, innovative, and future-proof. The OCA community grew in 2025, and we are proud of the diversity of OCA members, reflecting different company sizes and continents.



Number of participants



Revenue categories of participants



Participant distribution per continent

Dec 31st, 2025

Certification

We certified **286** products for OCPP. Welcome to the Club!

207 OCPP 1.6 Certificates

178 CS and **29** CSMS have received an OCPP certificate

79 OCPP 2.0.1 Certificates

64 CS and **15** CSMS have received an OCPP certificate

Working Groups

The OCA working and allocated task groups have contributed to a few great milestones in 2025:

TWG: Publication of OCPP 2.1

CWG: Publication OCPP 2.1 test cases & new certification program

Networking: Finalized white paper on Local Controller behaviour (cluster management & local load balancing). Publication: Q1 2026.

Security: Finalized Security Operations Guide part 1. Publication: January 2026

The OCPP Certification Program

OCPP continues to be widely adopted by charging infrastructure providers around the world. Certification plays an essential role in ensuring interoperability and is a requirement for government funding in several countries and regions. This underlines the importance of continuously evolving the OCPP Certification Program to meet market and regulatory expectations.

In 2025, OCA expanded and strengthened the OCPP Certification Program. Full certification for OCPP 2.0.1 became available in April, enabling companies to certify complete implementations for both Charging Stations and Charging Station Management Systems. Additionally, in 2025 the renewed certification programs for both OCPP 1.6 and OCPP 2.0.1 were launched.

The updated program introduces several structural improvements. These include clearer certification scopes, improved validation of reported device models and firmware or software versions, and enhanced traceability through additional certificate details such as firmware image hashes and declared communication ports.

The renewed OCPP 1.6 Certification Program also introduced certification for Charging Station Software Stacks, providing greater flexibility for vendors. In addition, **Product Family certification became available in 2025**, allowing manufacturers to certify multiple closely related products under a defined product family structure, as described in the updated Certification Procedure. This approach reduces administrative effort while maintaining clear technical boundaries and traceability within certified product variants.

To support global access, OCA welcomed a new test laboratory in 2025: Korea Testing Laboratory (KTL), which issued its first certificate during the year. Together, these developments make the certification framework more structured, transparent, and internationally aligned. Further reinforcing confidence in OCPP as the open standard for EV charging.



More than 207 OCPP 1.6 certificates were issued in 2025

Certification activity shifted from OCPP 1.6 to OCPP 2.0.1, with a clear increase in adoption of the 2.0.1 protocol version.



More than 79 OCPP 2.0.1 certificates were issued in 2025

This is an increase of 97.5% compared to 2024

Plugfests and events

During the plugfests we have connected **102** test teams of the EV charging industry from more than **20** different countries

Besides the events we have hosted, we have also visited multiple events during the year like **ATE** Washington, **CHAdEMO infrastructure workshop** Tokyo and **EVS38**

In 2025 we organized **3 plugfests**:

- Plugfest California
- Plugfest and conference Korea
- Plugfest the Netherlands

2 member meetings:

- Member meeting Asia
- Member meeting North America

And the **OCPP Grand Challenge** in India



Connecting the industry

Looking back on 2025 events



In 2025, OCA continued to bring the global EV charging community together through a range of events and active participation across regions. In a fast-moving industry, these gatherings provide important opportunities to exchange knowledge, share progress, and strengthen collaboration around the implementation of OCPP.

OCA hosted several events throughout the year. In January, we kicked off with the OCPP Plugfest California. This event marked the first opportunity for participants to test OCPP 2.1 implementations following its official publication, providing early practical experience with the latest version of the protocol. Participants tested their implementations on-site and connected with peers from across North America.

In February, a Member Meeting in Asia brought regional stakeholders together to discuss market developments and share updates from across the Alliance.

In June, OCA returned to Korea for a combined Plugfest and Conference. The plugfest was based around High Quality Testing. A unique opportunity for Vendors to test against one of our Korean Certification labs

The summer continued with the OCPP Grand Challenge in India in July. An interactive two-day event focused on two challenges: 1. **OCPP2.Lite Grand Challenge:** minimal implementation requirements and 2. **OCPP Security Grand Challenge:** passing the security testcases within the OCPP.

The final Plugfest of the year took place in the Netherlands at the end of September, where observers were invited to experience live testing sessions and participate in in-person Working Group meetings. The year concluded with a Member Meeting in Toronto in November, organized in collaboration with the EV roaming community, further strengthening dialogue within the North American market.



Highlights of 2025

Whitepapers & Webinars to expand OCA's global participation



In 2025, OCA published six whitepapers and hosted 12 webinars as part of its ongoing efforts to support knowledge development around the OCPP. These activities reflect the work carried out within the OCA Working Groups and Task Groups in collaboration with OCA experts, with topics selected based on input from members and the broader industry.

Several whitepapers addressed practical implementation topics in different regional contexts. The publications on integrating M-Pesa and UPI examined how OCPP-based charging infrastructure can align with widely adopted digital payment systems in Africa and India. By exploring these regional frameworks, OCA supported a broader understanding of how OCPP can be implemented effectively within local market conditions.

Another whitepaper focused on migrating charging stations to OCPP 2.0.1, offering practical guidance for organizations transitioning from earlier protocol versions.

Developed with contributions from many industry players, the paper supports continued interoperability and alignment with the latest specification.

The 12 webinars hosted in 2025 complemented these publications by offering updates on technical developments, certification changes, and implementation experiences. They also created opportunities for direct exchange between OCA experts and industry stakeholders.

Through these combined efforts, OCA continued to expand awareness and understanding of OCPP, including in countries where OCA had limited engagement in previous years. This contributes to the broader international adoption of OCPP and supports consistent, interoperable EV charging infrastructure across both established and emerging markets.

Highlights of 2025

In 2025 the OCPP has been downloaded **70.775** times

OCPP 1.6: **20.626** times

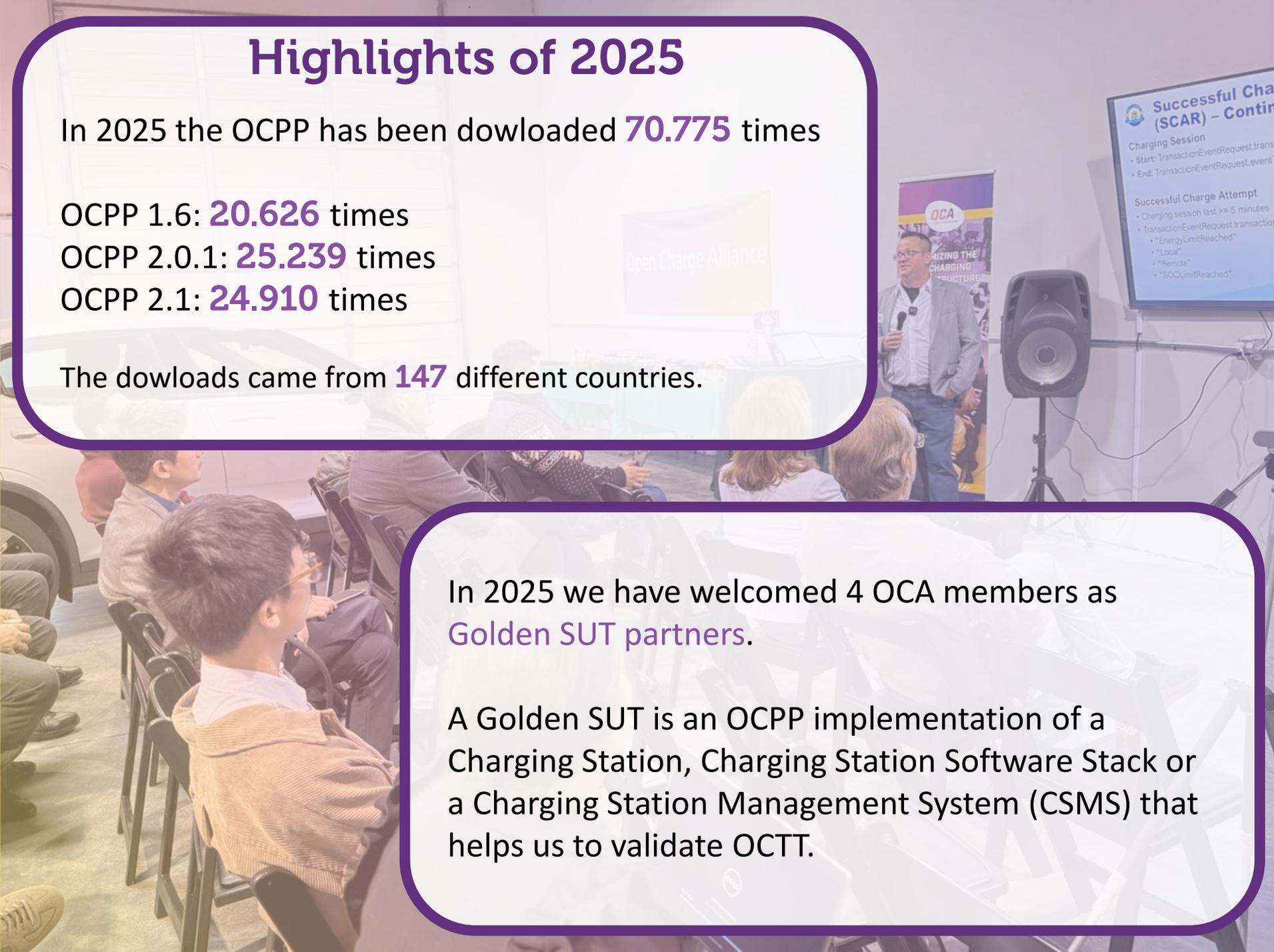
OCPP 2.0.1: **25.239** times

OCPP 2.1: **24.910** times

The downloads came from **147** different countries.

In 2025 we have welcomed 4 OCA members as **Golden SUT partners**.

A Golden SUT is an OCPP implementation of a Charging Station, Charging Station Software Stack or a Charging Station Management System (CSMS) that helps us to validate OCTT.





Highlights of 2025

Publication of OCPP 2.1 and continued collaboration with IEC



A major milestone in 2025 was the publication of OCPP 2.1, the latest version of the OCPP. Released in January, OCPP 2.1 builds on OCPP 2.0.1 and introduces new functionalities, including enhanced smart charging capabilities, improved device management, and support for bidirectional charging use cases. The new version reflects ongoing industry input and evolving market requirements.

Following its publication, OCPP 2.1 edition 1 was submitted for fast-track adoption by the IEC. Later in the year, it was formally accepted and published as IEC 63584-210:2025.

This marks an important step in strengthening international recognition of OCPP and further aligning the protocol with global standardization frameworks.

On September 30, we hosted a Technology Working Group face-to-face session dedicated to IEC collaboration. IEC introduced its Technical Committees and shared updates on ongoing work in IEC TC 57 and IEC TC 69. A use case example of IEC 63382-1 EV as DER was also presented.

The OCPP Security Operations Guide (published in January 2026) will be the first document shared with the IEC TCs within the scope of the OCA IEC Liaison A agreement.

In December 2025, the official test cases for OCPP 2.1 were released, providing a clear basis for implementation and future certification.

Through the publication of OCPP 2.1, the release of its test cases, and continued collaboration with the IEC, OCA reinforced its commitment to maintaining OCPP as a reliable, internationally recognized, and future-ready standard for EV charging infrastructure.



This Open Charge Alliance (OCA) Annual Report shares key updates based on information available as of the publication date. OCA is a non-profit foundation. Its revenues are used to support its mission. OCA is subject to regular financial control, and the financial audits are presented to the board. Statements about the future are forward-looking. They reflect OCA's current expectations, which might be subject to change. Actual outcomes may differ significantly due to shifts in global political, economic, business, technological, market, regulatory and other conditions. OCA undertakes no obligation to update or revise any forward-looking statements. This report is provided for informational purposes only and does not create any legal rights. To the fullest extent permitted by applicable law, OCA is not liable for any actions taken or not taken based on information in this report, regardless of the source, nor for any consequences that may arise from such reliance.