KEY PERFORMANCE HIGHLIGHTS

FINANCIAL YEAR 3
2022 - 2023 UPDATE

Smart Footprints

MAINTAINING CAPABILITY

CGEIT — Certified in the Governance of Enterprise IT® — An ISACA® Certification

ISO 22301 Effective Business Continuity

ACS CERTIFIED PROFESSIONAL — CP

SmartCities Certified Practitioner

Image Source:India Outbound 2024

CEO UPDATE

Smart Footprints digital & IT consulting and advisory services started operating on October 19, 2020.

This financial year we focused efforts supporting the University of New South Wales, continued support as Chair and Australian representative to IEC Smart Cities Systems Standards Development, Vice President of the Australian Smart Communities Association and ongoing study in an Executive MBA at AGSM.

Our services focused largely on the design and selection of a Wireless and Network Access Control vendor to replace technical debt for UNSW.

It was another busy year with **314 days** of effort with long but rewarding days not including studying part time towards an Executive MBA.

Our combined business and family CO2 impact was 23.5 tonnes in 2022-22. This was an improvement on 40 Tonnes this financial year.

The reduction was an adjustment to the cost of NBN data usage which though had increased was too highly calculated for Co2 last year. The solar and battery performance resulted in a negative Co2 impact.

We continue to work with universities and local councils with more effort placed in growing the ASCA membership base and support to a summit, and the development of a technical guide on multifunctional poles with local industry players.

The highlight of the year was the sustainabilty trek in Brazil and the lessons learned on future scenarios for climate change beyond a tech led adaptation model. In short we need to consume less and prepare for the worst, changing lifestyles and caring for our biodiverse world.

An offset has already been donated for flights, therefore we will offset the 2022-23 remainder of 16.5 tonnes as an obligation on our website.

I would like everyone SmartFootprints has interacted with at UNSW, at Standards Australia and ASCA.

James Sankar
CEO, Consultant

Business Dev

Focus on delivery of UNSW project work and incirporating the lessons learned and insights from standards and the Australian Smart Communities Association

30
Dev days

15
Research & Development Days

RESEARCH

As part of my MBA course at the Australian Graduate School of Management I was able to learn about Sustainability and experience the impact in the Amazon Rainforest and local communities, helping to establish an offset fund for future trips

CONSULTING

Delivery mode for the procurement, build, stage test and piloting of WIFI 6E, setup of data governance frameworks

239
Actual Consulting Days

30
days actively participating in smart sustainable cities and LGA member work

PRO BONO

Support as Chair and Head of Delegation for IEC Systems Committee for Smart Cities developing a technical guide for multi functional poles and as Vice President for the Australian Smart Communities Association growing membership and supporting our first national summit.

RESEARCH

In October 2022, I attended the first in-person FGV-hosted GNAM course since COVID-19—a milestone that reshaped my perspective on sustainability, leadership, and global interdependence. Immersed in South America's diversity and the Amazon rainforest along the George's River, I engaged with women-led cooperatives, indigenous groups, and community leaders striving to sustain livelihoods and protect land rights. These encounters highlighted the complexity of coexistence, resilience, and the courage required for sustainable leadership.

The course challenged my belief that technology alone could solve climate change and inequality, instead underscoring the need for systemic change, humility, and leadership that respects biodiversity, indigenous knowledge, and social equity. Inspired, I co-developed a carbon-offset model for GNAM trips, funded a local student's participation, and applied data analysis to reveal links between deforestation, governance, and economic activity—reinforcing democracy's role in sustainability.

Looking forward, I see opportunities to deploy solar-powered IoT "pods" to monitor reforestation and provide digital connectivity to rainforest communities. These experiences also informed my MBA learning, strengthening my skills in data analytics, law, ethics, and regulation.
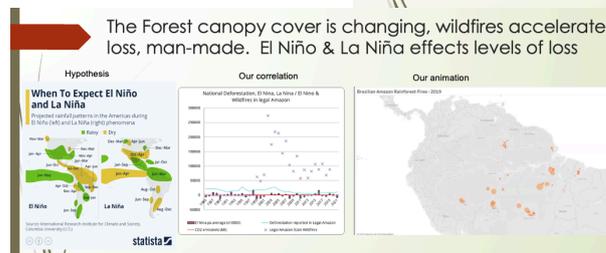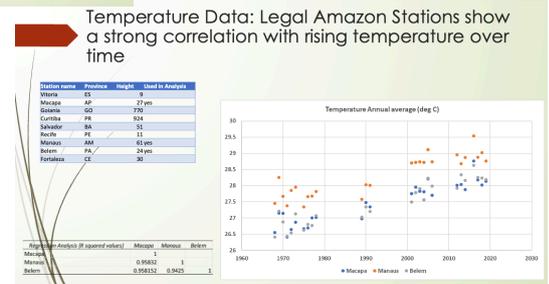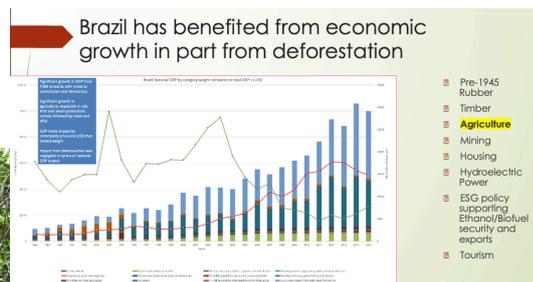
CONSULTING

We were grateful to support university customers with their network refresh and transformations goals by assisting with a market evaluation for a wired and wireless network and security infrastructure.

Work began to procure, design, pilot and rollout new WIFI6 across approx 160 buildings at UNSW, coordinating efforts across 50 staff from 20+ consulting and contractor organisations. Extensive auditing, the establishment of safe work practices, stage, build and testing and pen testing of the university pilot sites was achieved despite many challenges and complexities
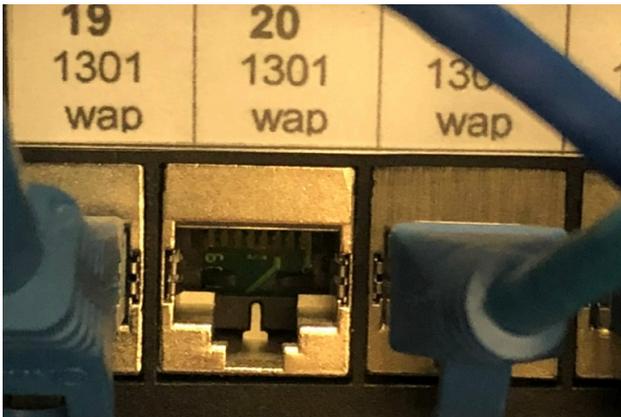
A Smart Campus strategy had been prepared and was being socialised for Executive level support this year. A data governance group was also established to proactively address risk, security and privacy in accessing new WIFI services and associated location based services resulting in the formation of policy, service terms and conditions, privacy training and data sharing governance processes for data requests.

PRO BONO

30
days actively participating in smart sustainable cities related work

In 2023, James became Vice President at ASCA and helped reignite national engagement with the Smart Communities Summit in Parramatta, attracting 154 attendees, 19 speakers, and immersive site tours, supported by six webinars and a Geelong study tour.

Membership grew with eight new organisations and 11 Gold members, boosting revenue by ~$24.5k and strengthening ASCA's network. Engagement lifted through a 36% rise in LinkedIn followers, 791 newsletter subscribers, and the launch of the Reference Group, giving members a stronger role in shaping strategy and events. ASCA enters 2024 positioned for growth, stronger collaboration, and not-for-profit conversion.

James continued to chair IEC Systems Committee work representing Australia at virtual event, plenaries and in reviewing standards for AU adoption with the coordination of an Australian Technical Guide on Multi-functional poles with the Australian industry community.
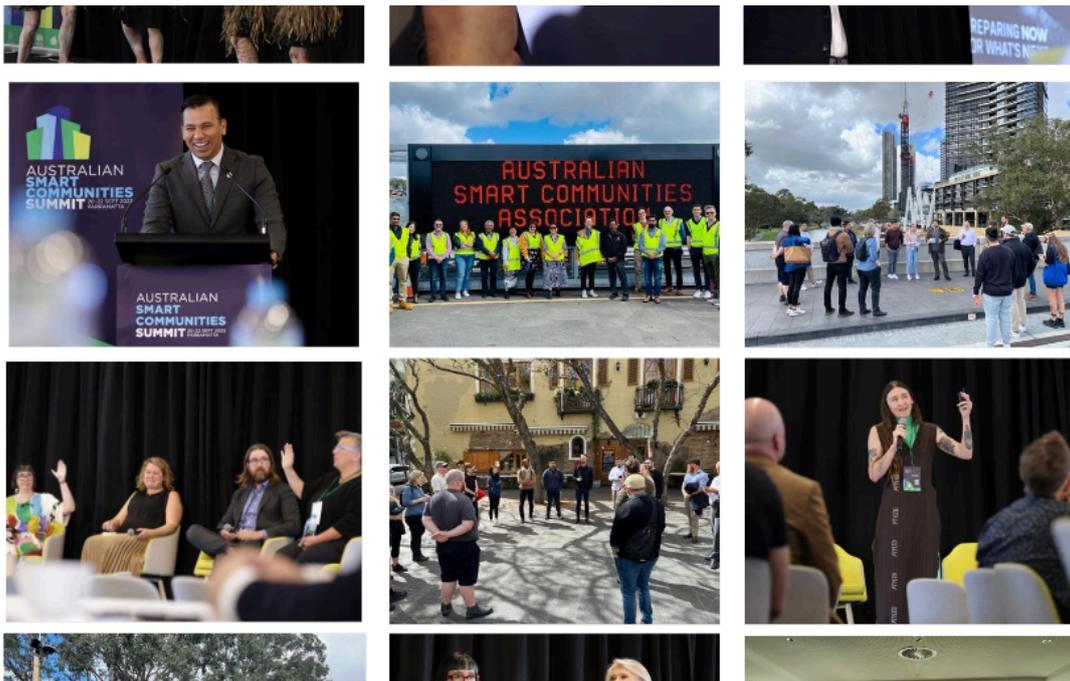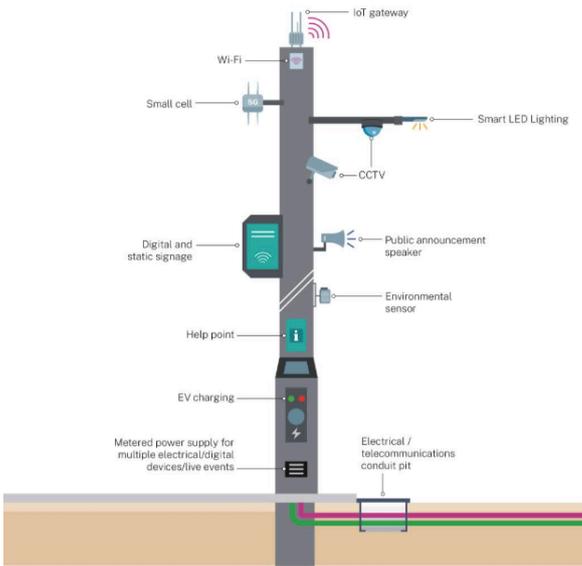
CARBON IMPACT ANALYSIS

Smart Footprints & family direct carbon emissions grew from 15.18 CO2 tonnes, 40 CO2 tonnes in 2022-23.

Food and Waste [14 to 16 CO2 Tonnes] Covered the cost to produce, transport food and drinks and dispose of waste; Co2 was based on 5 days meat and 2 days veg diets, this is a rounded up high level estimate plus a large family birthday event hosted at home.

Utilities [18.92 to -0.4 CO2 Tonnes] Revised NBN calculation and better than expected electricity generated from solar to batteries and the grid, less the cost of gas.

Travel [3.56 to 4.77 CO2 Tonnes] Single trip to Brazil for a sustainability trek, Fiji, weekly bus, train trips to the city and local car use of 10,000 Kms, up from last years 9,600 kms travelled.

The total emissions are **23.5 CO2 tonnes, lower than 40 Co2 tonnes last year**, in comparison to other averages, it was lower than Australia's 39 Tonnes Co2 average per household (2022-23) [note last years comparison of 15 Co2 tonnes was the individual metric] and approx. nine times the global 20 average (2022-23) based on Our World in Data / World Bank / UNFCCC datasets (via GreenPacks & Ecologic Life summaries) for global per capita emissions, Wikipedia (Greenhouse gas emissions, Individual action on climate change) for consolidated per capita GHG numbers and UN demographic data for average global household size (~3).

CARBON IMPACT

24
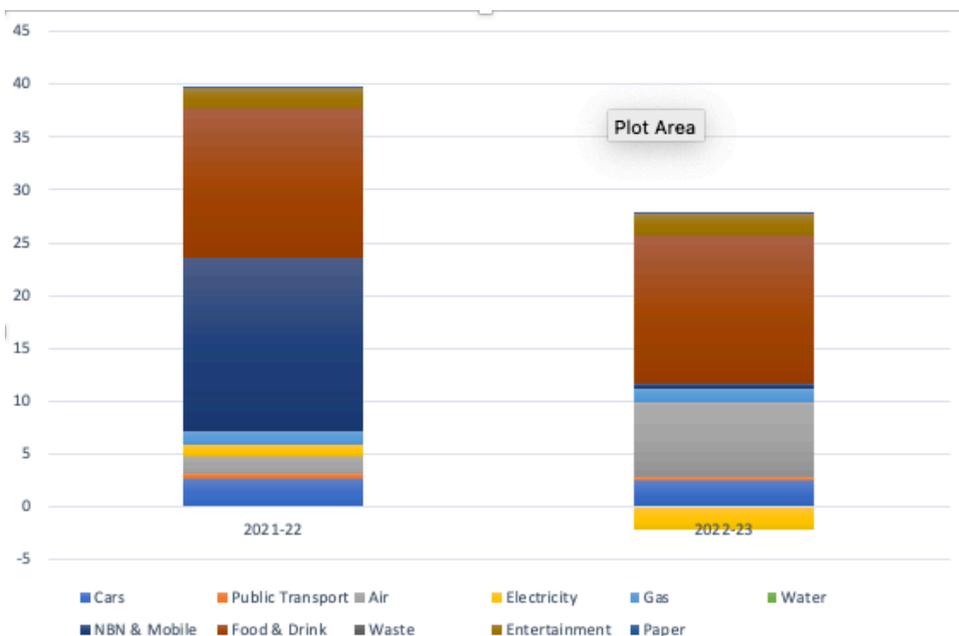
CARBON OFFSETS

INVEST FOR GROWTH

Our Plans for 2023-2025 are to continue to invest for growth in our research and advisory practice to create a broader range of products and services.

Universities

- We will help universities to digitally transform IT capabilities from the infrastructure up to support smart campuses, digital campuses and net zero targets for 1990 emissions.

Local Government

- We will assist the Australian Smart Communities Association in supporting its LGA members on good practices for smart tech and sustainable outcomes.

- We will develop smart place readiness assessments by developing a data analytics platform with AU, NZ and UK partners.

Private Sector

- We will develop a novel data analytics platform to allow SME's to report on carbon emissions and invest in offset programs in Australia and Brazil, and develop multi-year programs to reduce emissions at source