5PRING

Lookbook

O2 Deloitte. wayra CATAPULT Digital 5G

Omniflow provides sustainable smart city solutions. With this 5G solution, cities can transform a simple street light into a carbon neutral object that can be used for multiple IoT purposes in a single infrastructure – without the need for creating new ones.

Omniflow®

Pedro Ruão
Founder & CEO

Joao Sousa
CFO

Filipe Marçal
COO

Paulo Guedes
Int.BusinessDev.

WHO ARE WE

Omniflow developed and patented the next generation smart pole. An advanced design that combines an hybrid technology, for renewable energy production, with energy storage and integrated smart applications.
Our awarded Smart IoT Lamppost, powered by wind and solar, transforms a regular street light into a sustainable smart infrastructure, capable of housing multiple added-value services like 5G, Computer Vision and Drone Charging Stations.
Omniflow's Mission is to have a positive impact in the world, avoiding CO2 and expanding digitalization.

PROBLEM

There are 500 Million streetlights with more then 20 year-old technology that only offer one service, lighting, and consume a lot of power from the grid.

SOLUTION

With our solution cities can transform a simple streetlight into a carbon neutral infrastructure capable of housing multiple added value services.

TRACTION

Omniflow has active sales in more then 30 countries around the globe, with thousands of units already installed.
Our main markets are EU + UK and the United States, but recently we've been seeing a lot of big scale opportunities in markets on the Souht East Asia and MENA areas.
Omniflow was cash flow positive in 2018 and 2019, with sales reaching 1,2M€.

Recognitions & Awards:
- Altran Innovation Award
- EU SME Instrument Phase 1 & Excellence Seal
- Red Herring Top 100 Winner Europe
- Yonkers, New York, receives National Innovation award for wind solar lighting.
- Dubai Futurism Award
- World Alliance for Efficient Solutions - Solar impulse foundation

RAISING?

Omniflow is raisinge funds for a total between 8-10M€.

Omniflow® in

Computer Vision for Waste Management - With the current inefficient and opaque waste system, there is an urgent need to rethink and reinvent how recycling works. 5G enables real-time transfer of information on waste flows that can be used to optimise recycling plant performance.

GREYPARROT

Greyparrot provides AI-powered computer vision software to increase transparency and automation in recycling. The waste management industry as a whole (worth $530 Billion by 2025) is going through a massive shift due to increasing regulation, export bans and consumer pressures. The spotlight is now on the waste management industry to help close the loop and tackle climate change. We are team of AI experts with an entrepreneurial background. Our goal is to unlock the financial value of waste and in turn, keep our planet clean.

Mikela Druckman
Co-founder & CEO

Alisa Pritchard
Head of Marketing & Operations

PROBLEM

The world produces over 2 B tons of solid waste per year, of which 60% goes to uncontrolled landfill and open dumps and only 14% is recycled - this results in major negative environmental impact.

At the core of this process are MRFs (material recovery facilities) - they are inefficient at identifying and separating materials to the level required for recycling. Combined with mounting pressure on producers to improve product recycling rates, there is an opportunity to use data and insight to make a step-change in creating a more circular economy.

We firmly believe that what isn't measured can't be optimised.

SOLUTION

Greyparrot automates waste composition analysis using AI-powered computer vision software. Our first product is an "Automated Waste Monitoring System", currently deployed on moving conveyor belts in recycling facilities to analyse large waste flows of mixed recyclables - plastics. fibre, alloys. This provides waste analytics and new insights previously unavailable to waste managers, producers and regulators. Waste composition information is key to help facilities increase recycling/recovery rates, give quality guarantee to buyers, mitigate against risks, and understand the carbon footprint of products.

TRACTION SINCE OUR INCEPTION IN 2019

1. Commercial pilots in UK, Japan, S.Korea, Italy with large waste management companies
2. Further extending software capabilities with trials in waste to energy, chemical recycling
3. Raised $3.5m seed round led by leading European VCs in 2020
4. Secured $650k Gov. grant for hardware integrations and $400k grant for brand recognition off packaging
5. Coverage in TechCrunch, Forbes, Business Insider, Evening Standard, BBC News and key trade publications

RAISING?

We will be raising £5 m for our Series A in Q4 of 2021

KC Technology develops a radar-based traffic monitoring sensor. It captures traffic and motion data with a non-image/video approach and improves traffic congestion issues and provides pedestrian movement insights by integrating the sensor with low latency 5G networks.

KING CITY

Gary Wong
CEO

Kelvin Wong
CMO

Who ARE WE

KC Tech focuses hardware and AI development in radar-based traffic monitoring sensors which 'visualise' instant traffic conditions including vehicles and pedestrians flow without cameras. Our embedded AI engine captures motion data, count and transmits results instantly via low latency high speed 5G connection in order for specialists to improve traffic congestion problems effectively.

Problem

Traffic congestion is one of the global urban issues, improvements are hardly deployed since the collection of instant data, sensing device technology, size of data packets and transfer speed are the major barriers to conducting the next step of data analytics. There are a lot of smart traffic planning solutions in software based which claims to improve congestions, but most of them are without a realistic historical big data review since it is impossible to conduct data collection by using a lot of time and labors.

Solution

With the maturity of 5G deployment, high-speed data transfer and very low latency, our 60GHz radar sensors can instantly generate multiple traffic results. Both vehicle and pedestrian flow can be identified by our sensors. Adaptive traffic modeling can make effective improvements such as traffic lights management and alternative routings. Vertical expansion will be easy by installing our radar sensors with 5G connectivity among cities and countries.

Traction

1. Infineon Technologies strategic IoT radar device developer since 2017
2. Deployment of radar sensors among major property development companies and management offices in Hong Kong
3. Deployment of radar and other IoT sensors among government projects in Hong Kong
4. Public exposures including CES, RISE and IFA showcasing events during the past few years

Raising

Target raising :
GBP 400k - 650k

Real time on demand optimisation and time of arrival for people, packages and things. 5G enables a better customer experience due to the ability to process high volumes of data and greater bandwidth, allowing a real-time proficiency.

arrive by

Dave Hepworth
Founder

Ayub Khan
Business Dev

Marc Sabas
Advisor

ARRIVE.BY

Arrive.by is an Australian technology company providing optimisation services for people packages & things, with a focus on the first and last mile. Our solutions are used in Australia, Singapore and the US. We solve complex customer optimisation problems and can provide a tailored solution for any sector.

PROBLEM

Inefficiency rules many businesses involved in the transportation and delivery of people, packages or things. This leads to wasted resources, missed deliveries and unhappy customers.

When was the last time you ordered out and the food arrived cold? Or you've just arrived home to find a missed delivery that you're unable to reschedule there and then?

As a business, do you want to minimise resources used and reduce carbon emissions? Or how about a unique pain point?

SOLUTION

We solve complex optimisations:

- To increase efficiency
- At a larger scale
- Custom vehicles - escooters, ebikes, AVs
- Indoor/Outdoor maps

We are sector AGNOSTIC:

- People, packages and things
- Food delivery, logistics, containers, scheduling, buses...

There is an optimisation API that can solve a range of problems - try us today!

TRACTION

To date, we have powered almost 2M tasks/deliveries in the courier and food delivery space in Australia, Singapore and the US. We have a joint venture in place with a US based farm to fork company for delivery from US into China and Singapore, plus a couple of test beds in place with UK companies.

We support maps for Australia, Malaysia, Singapore, West Coast USA, United Kingdom, New Zealand and China. Our vehicle profiles include electric vehicles, autonomous vehicles, escooters and other custom vehicles.

RAISING?

Arrive.by is bootstrapped. We are looking to raise a seed round of up to £600k in Q2 2021.

Helping businesses to digital track and monitor mission critical assets. 5G's increased capacity will help to unleash an ecosystem of connected devices that will reduce energy, time and effort spent tracking and monitoring mission critical assets.

EVERYWARE

Jon Hardman
Co-founder &
Solutions Director

Tom Screen
Co-founder &
Technical Director

EVERYWARE

Everyware is an end-to-end IOT solutions provider, leveraging proprietary sensors to monitor and track specific parameters of mission critical assets in the Healthcare, Maritime, Logistics and Distribution sectors. Based in Leamington Spa, England Everyware has deployed condition-based monitoring and asset management solutions across the UK, Europe and the USA.

PROBLEM

Businesses responsible for large inventories of mission critical assets or equipment are struggling to manage and track them efficiently. Business owners are frustrated with lost or stolen incidents and manual operational checks are time consuming and often forgotten.
Current systems for tracing and monitoring assets can be very manual and labour intensive.

SOLUTION

Everyware's advanced tracking and monitoring solutions provide valuable insights towards
our customers business operations improving overall business performance and
increased operational efficiencies. The Everyware cloud-based platform allows
for real time access to customised data sets for multiple users via a secure,
trusted network. Our technology solutions are interoperable with most
leading industry ERP systems and have been designed to scale for further
developmental use and application.

TRACTION

Established in 2015 we have developed and proven a range of asset management business solutions, automated manual operational processes and solved real world issues experienced by our customers.

We are proud to be working closely with our local NHS trust to track and monitor critical medicine storage assets and equipment, fully automating critical safety checks.

RAISING?

Potentially in the future, but no immediate plans.

@everywareuk
www.everyware.ltd

Electric ZOO, The Easy Way To Go Electric in 3 simple steps

electric ZOO

Electric ZOO

Lash Saranna
CEO

Charnjit Saranna
CFO

Alan Blunt
Mentor

Electric Zoo provides an All-in-one solution for short to long term leasing of Electric Vehicles via an online digital platform where the consumer designs their own user journey based on which vehicle, how long, how many miles including Insurance, Maintenance and Charging. Our solution helps you Go Electric The Easy Way.

Problem

The problem that we are trying to resolve is changing the market from the traditional Ownership model of a vehicle to a more flexible and cost-efficient
Usership model whether as an Individual or as a Fleet Operator
It takes too long
It's overly complex
The products that I want do not exist
And I have no control over the price which goes up every year

Solution

Electric Zoo offers a fully flexible electric vehicle leasing solution including insurance, maintenance, recovery, charging facilities. This is available for all types of electric vehicles
It is a simple three-click process, choose the vehicle, choose the period of the lease, and make the initial monthly payment
This allows the adoption of a flexible 'usership approach to vehicle management which minimises the environmental impact and reduces cost

Traction Since Inception 2018

Short term we have proven out the technology, the service proposition, the business viability

We continue to develop our information and knowledge based on real time data capture

We have pivoted as a result of initial market development, the impact of our proposition, the changes in market regulation and the actual demand from the EV markets

Raising

Ultimately we want to be the 'Uber' of EV Usership with total flexibility, we have Unicorn status aspirations and will be seeking seed funding in 2021

@EZoo_UK
www.electriczoo.co.uk

Don't replace your industrial assets just because they are not connected to the internet. First give us an opportunity to retrofit our industrial-strength connectivity solution at a fraction of the cost by using low-cost 5G-enabled monitoring stations.

OSMIUM

Graham Hygate
Commercial Lead

Ulf Aberg
Technology Lead

WHO ARE WE

Osmium is a partnership between

- Fine Energy - wind turbine operator and maintenance specialist
- Aberg Design - specialists in industrial-strength remote computing

We work collaboratively with our customers to integrate Osmium into your exsiting equipment and work processes.

PROBLEM

Fine Energy had a fleet of wind turbines which were going to become obsolete unless a way could by found to monitor them, control them and run diagnostic tests on them remotely. This made us realise that there are lots of assets in other sectors such as water which will also need to be replaced at considerable expense if they cannot be put online.

SOLUTION

So we came up with a retro-fit approach - introducing a small robust, versatile internet-connected computer into the control cabinet of each asset. Osmium doesn't take over the installation, it sits alongside existing equipment, enhancing its capabilities and extending its life. We make this happen at a fraction of the cost of swapping-in an internet-enabled replacement control system.

Could Osmium improve the performance of your business? Do you operate

- remote assets that could do more if you could monitor and control them remotely?
- machinery that is reaching the end of its life because it is not internet-enabled?

Partner with us and we will tailor Osmium to suit your business.

TRACTION

- Our first project - in the wind sector - has been revenue-earning since July 2019 and is getting favourable feedback from customers. It is now a stable and mature service. A key feature has been its robustness - in particular its ability to recover from power outages.
- On the back of this success we are seeing interest from several water companies with interests ranging from flood prevention to clean water quality monitoring.
- We are working with a developer of energy-positive housing, helping them to monitor the status of electrical appliances in their housing stock
- We are demonstrating our capability to harness the benefits that will be offered by 5G when it is rolled out -principally reduced latency and support for a high spatial density of devices - by participating in this programme for early adopters of 5G technologies.

RAISING?

We are self-funded and we aim to complete our second pilot project before looking for investment. We anticipate this will be in the final quarter of 2021 and in advance of this we are actively briefing potential investors with an interest in the circular economy and sustainable business.

Making fit and style accessible to more people, sustainably. 5G will enhance the delivery of our solution, lowering latency and increasing processing speeds.

AISTETIC

Duncan McKay
CEO

Phil Torr
CTO

WHO ARE WE

We are a University of Oxford Spinout, applying state of the art computer vision and deep learning to the real world problems associated with shopping for clothes online. We're building an innovative e-commerce platform, applying computer vision and deep tech to clothing. We are a team that is on mission to disrupt and improve how everyone shops for clothes. Aistetic was founded with a clear purpose: to make fit and style accessible to more people wherever they are. And our mission is to do so sustainably, reducing waste, and encouraging a more sustainable approach to clothing.

PROBLEM

The problem is too many clothes do not fit from online orders. As a result, clothes are returned. This has a financial cost for retailers as they have to process the return, re-stock and re-deliver. There is an environmental cost with clothes going to landfill, or additional logistics required to handle these returns. It's a pain for shoppers: ordering multiple sizes, having these to send back or to make a special trip to a store.

SOLUTION

We are building a B2B tech platform for retailers to make fit and style accessible to more people, leveraging computer vision, deep learning & advanced visualisation. We want to reduce online returns and increase conversion for retailers. Our purpose is to do this sustainably, reducing the environmental impact of returns ensuring that shoppers buy clothes that fit them, keep and wear for longer.

TRACTION

- Secured £680K of funding to date - 2 Innovate UK Grants, University of Oxford Research Partnership, Machine Intelligence Garage Accelerator, Data Market Services Accelerator, & 5Pring Green Innovation Challenge Accelerator.
- Pre-seed round closed October 2020.
- Progressing discussions with retailers to pilot in Q2.

RAISING?

Raising Seed Round £350-£750K from March 2021.

https://www.linkedin.com/company/aistetic
aistetic.com

CurveBlock is opening the door for regular folks to earn passive income investing in green real estate developments. Allowing immediate diversity of your developments portfolio all while maintaining liquidity of your investment. Developments are carbon zero, energy positive A+ EPC rated. By implementing 5G into its sustainable housing, CurveBlock will be able to gather real-time data that will support its ability to gain insights to enable users to reduce energy consumption.

CURVEBLOCK™

WHO ARE WE

Gary Woodhead
Co-Founder/CEO

CurveBlock is a disruptive innovation in the Real Estate FinTech space improving the investment landscape by democratizing access to passive income through a regulated real estate development, green initiative, digital equity fund.
Our tech stack will integrate distributed ledger, digital equity, web and mobile features. It brings liquidity into a traditionally illiquid asset class and will be traded on our proprietary regulated exchange.
Our development projects will be zero carbon, energy positive to eliminate emissions and power both your home and vehicle indefinitely. All homes will contribute to the electric grid instead of taking from it.

Joey Jones
Co-Founder/CRCO

PROBLEM

The working class has been excluded from investing in real estate development.

New homes are still being built using fosil fuels and creating a large carbon footprint.

SOLUTION

CurveBlock is building an exchange to allow everyone to participate in real estate development with a broad, diversified portfolio or development projects.

CurveBlock is investing in carbon zero, energy positive developments that are energy providers (contribute to the grid) instead of energy consumers.

Matt Couch
Co-Founder/MD Land & Development

TRACTION

Accelerated by NatWest bank
Passed due diligence of HMRC for SEIS/EIS
Scaled by international law firm CMS
Clickable prototype complete
Startup of the Year finalist Great British Entrepreneur Awards 2020

CurveBlockTM name trademarked
Prestigious innovator of the year ExForcesBusiness Awards 2020
Lotus Award Sustainability Winner 2020
Loyal VC invests 2021
5prinG Green Innovation Challenge

Founder Institute graduate 2020 (partnered with NASA)

RAISING

£1.2 million maximum

EIS Available

@CurveBlockIO
www.CurveBlock.io

Developing 5G autonomous vehicle technology for a logistics POD that will be bringing together groceries and deliveries to sites on private roads/ pathways.

WESTFIELD TECHNOLOGY GROUP

Julian Turner
CEO

Simon Westwood
COO

The world's first pure electric SAE Level 4/5 AI Autonomous road sweeper that has a secondary job of conglomerating deliveries to houses, Universities, places of work, hospitals, shopping centres and sites. The vehicle has a removable hot swappable chilled locker system that uses face recognition and QR codes to access lockers on board the vehicle. 5G will enhance the remote stewarding technology, provide live asset/road/path monitoring, enable faster AI data set learning, fast stream related insurance data and provide data on the road sweep and vehicle control systems.

PROBLEM

LUK's online grocery market is forecasted to be worth about 20.5 billion euros by 2024, which means it will grow by 41% over the next five years. This ever growing market has led to more deliveries and more congestion, 23% increase in delivery schedules today and emissions increasing by 3% in the Solihull area alone.

SOLUTION

We will solve the problem by conglomerating deliveries into a last mile, solar powered, pure electric driverless solution delivering to places of work, hospitals, Universities and events. We fit a temperature controlled locker into the vehicle to act like an Amazon locker. It sweeps between deliveries

TRACTION

The Autonomous Platform has now completed over 6M Km in a commercial environment and has been proven at London Heathrow Airport, Manchester, Cranfield, Cardiff, Wolverhampton and soon Bristol Airport. Westfield are a:

- Global Autocar Innovation Award
- IOD - SME Exporter of the Year, Innovator of the Year

We hold ISO 27001 and ISO 9001 Accreditation and are auditted each year by the Vehicle Certification Agency for European Small Series Type Approval

RAISING?

We are planning to raise 100M in Q2/3 2021

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