



Our Path in Making Sustainability Affordable



Mauritius and Tanzania

Our Journey with PPHG

2016 Initial engagement & design thinking brainstorming with PPHG through NTUitive introduction

2017 Kickstarted multidisciplinary collaboration between PPHG, NTU, and Evercomm

2018 Selected for STB Hotel Innovation Challenge Phase 1 (Al-enabled Chiller Plant Digitization)

2019 STB Hotel Innovation Challenge Phase 2

2020 NEA Food Waste Digitization

Travel Technology

Pan Pacific ties up with Singapore startup for digital transformation

By TTG Asia / Posted on 8 October, 2018 10:21

Pan Pacific Hotels Group (PPHG) and energy startup EverComm Singapore have kicked off their inaugural collaboration to enable digital-ready hotels across the former's global portfolio.

Using EverComm's proprietary technology, a Building Energy Management System harnessing Artificial Intelligence and the Internet of Things will be deployed across all of Pan Pacific Hotels Group's hotels, resorts, and serviced suites, starting with Singapore.





AI Operation On-boarding Scope

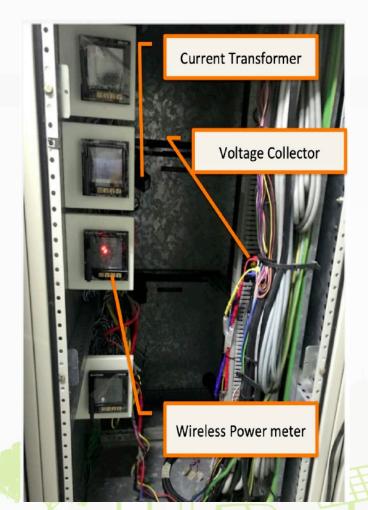
Deployment Sites

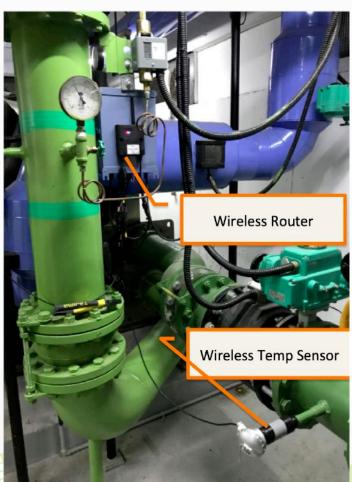
- PARKROYAL on Kitchener Road, Singapore (BMS Integration)
- Pan Pacific Serviced Suites Orchard, Singapore (IoT Sensors)
- Pan Pacific Serviced Suites Beach Road, Singapore (IoT Sensors)
- PARKROYAL COLLECTION Pickering, Singapore (BMS Integration)
- PARKROYAL on Beach Road, Singapore (IoT Sensors)

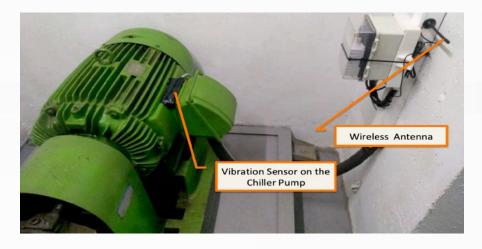


Assets/Equipment Digitization

- Wireless IoT devices enable quick and simple data on-boarding for buildings
- Capable to interface with existing sub-systems (BMS/MES etc)



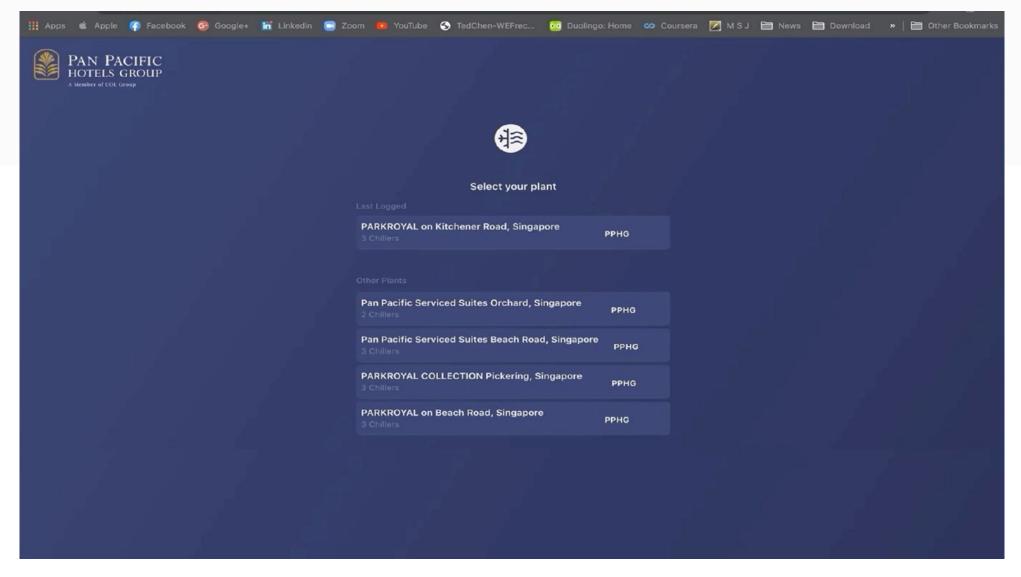




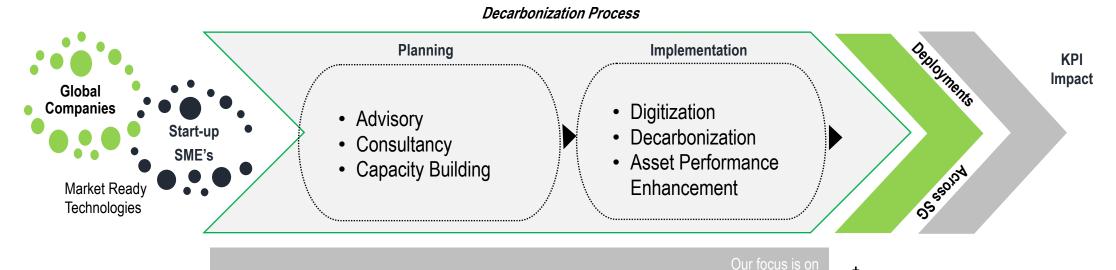




Assets/Equipment Digitization



Scaling Innovation with NTU ECOLABS



PPHG to serve as a catalyst centre to translate cuttingedge technologies, products, solutions in into real applications to create value and impact.

EcoLabs Engagement
Test Bed Architecting
Provide Virtual Audit es
Due Diligence of partners
Project Deployment Support
Access to Govt Grants, Financing

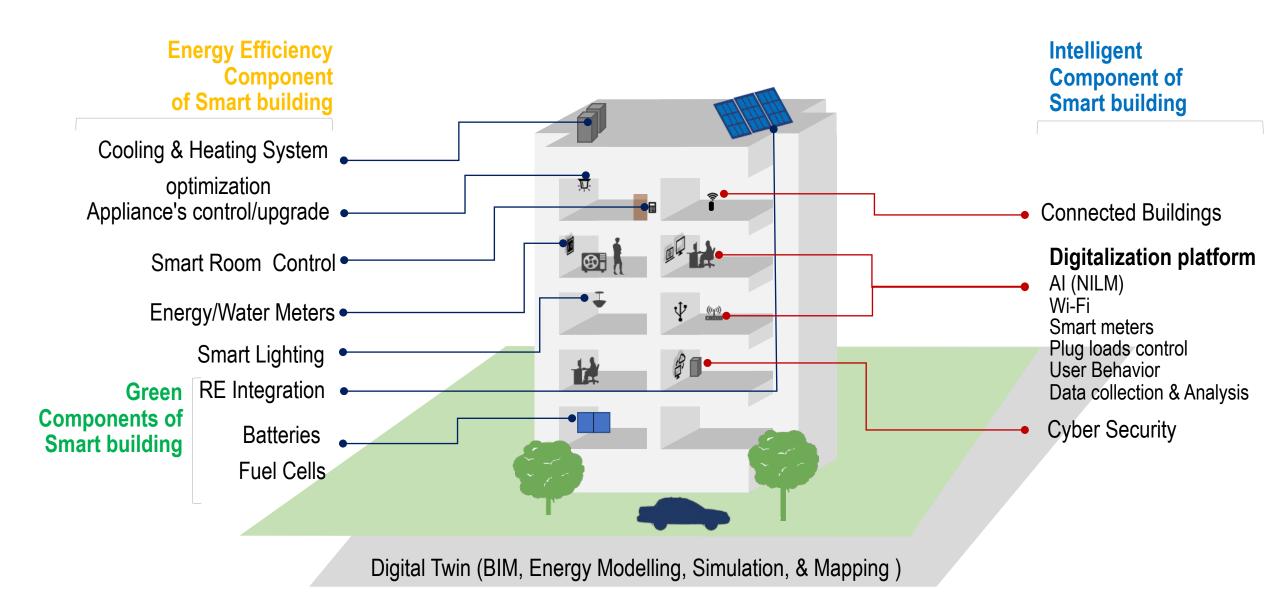


PPHG Team Site Advisory Projects Planning Commercialization

applied development to deployment

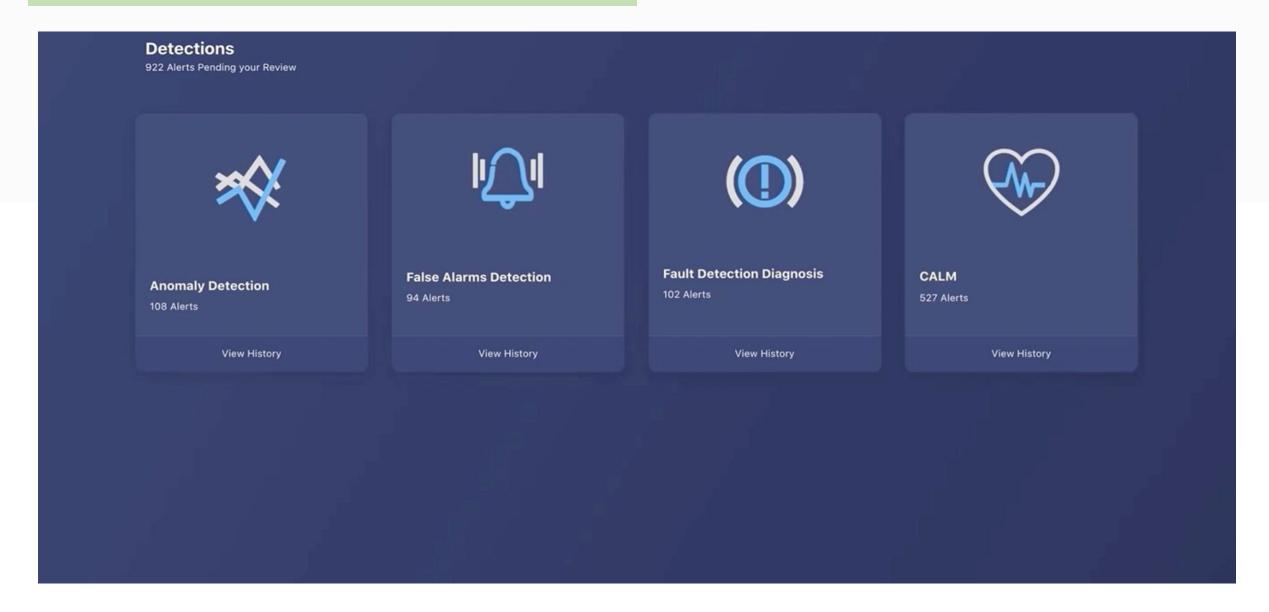
PPHG Contribution
Data Provides
Access to Test Bed Sites
Direct project funding

Sustainability Technology Stacks



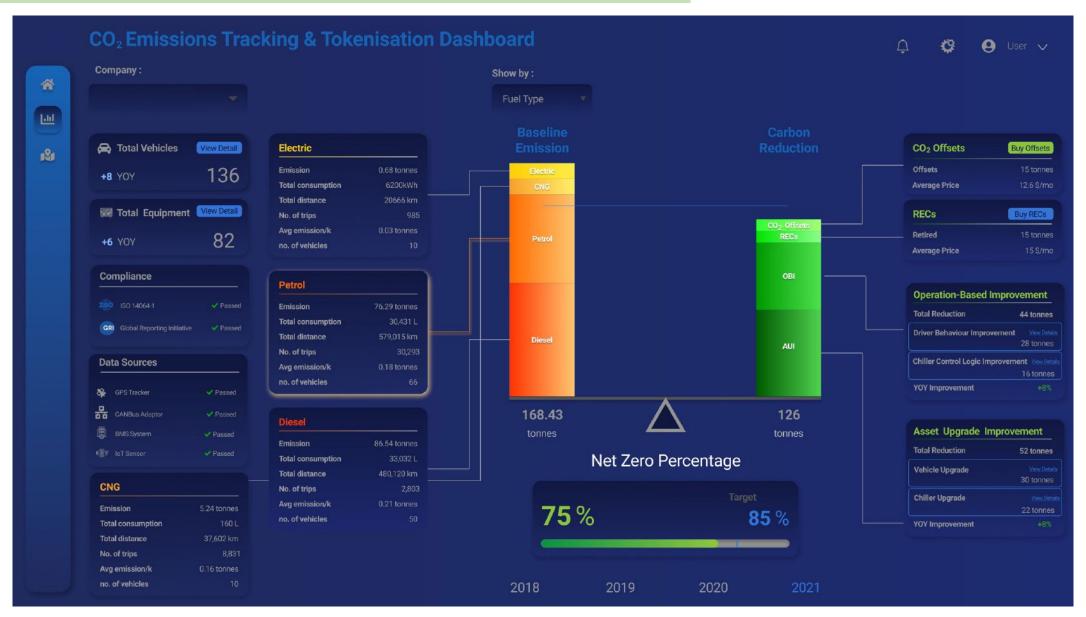


Applying AI Modules to Existing Data

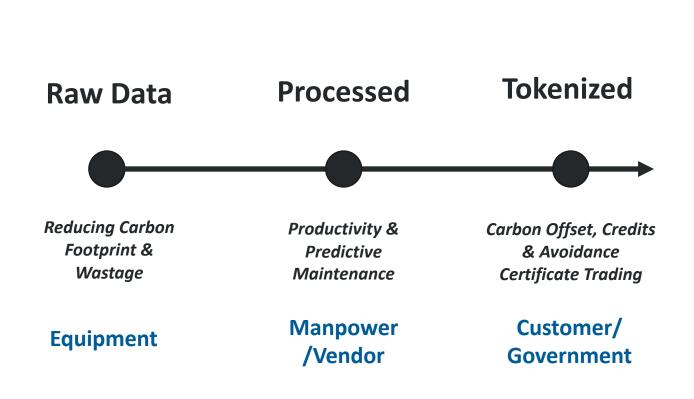


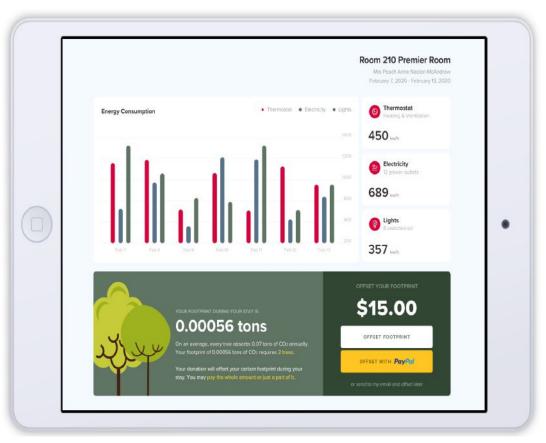


Carbon Abatement Commitment Management



Closing The Sustainability Loop With Consumer Participation





Carbon Offset Feature Work-in-Progress to Accelerate Green Tourism (Hotel Buildings)

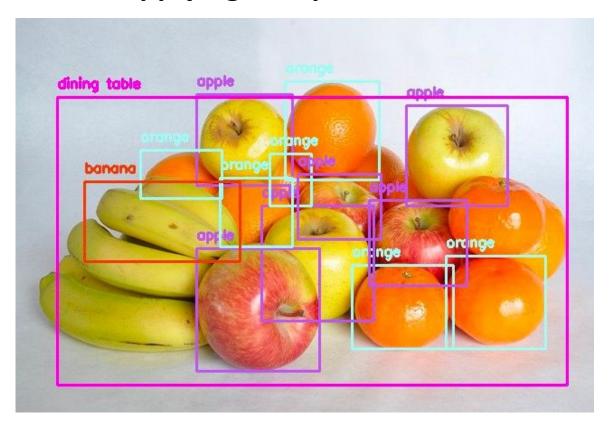




Digitizing Food Waste



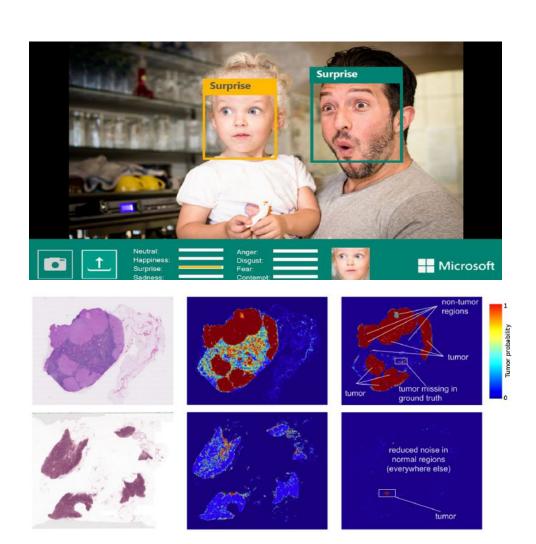
Applying Computer Vision





Digitizing Food Waste





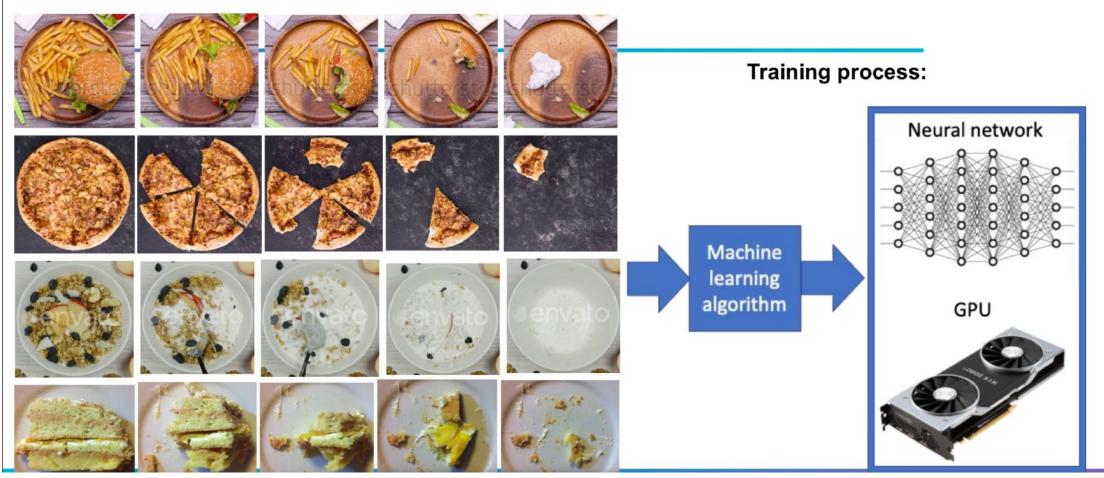


110Z

Digitizing Food Waste

Training data: Images of food at different percentage/amount remaining

100%/300g 75%/225g 50%/150g 25%/75g 0%/0g





Closing The Food Waste Loop With Consumer Participation



Fundamental Supply & Demand Communication Gap

Most solutions in the market captures waste here



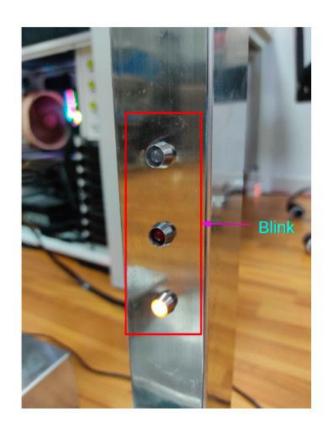


Existing Challenges to Bridge the Fundamental Gap:

- Too Tedious & Labor Intensive
- Too Expensive
- Restaurant Priority: Service-first/Customer-centric



Camera & App

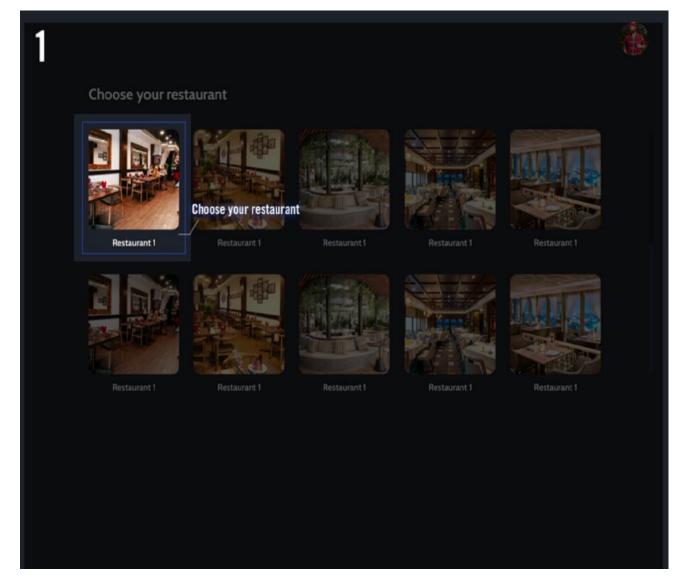


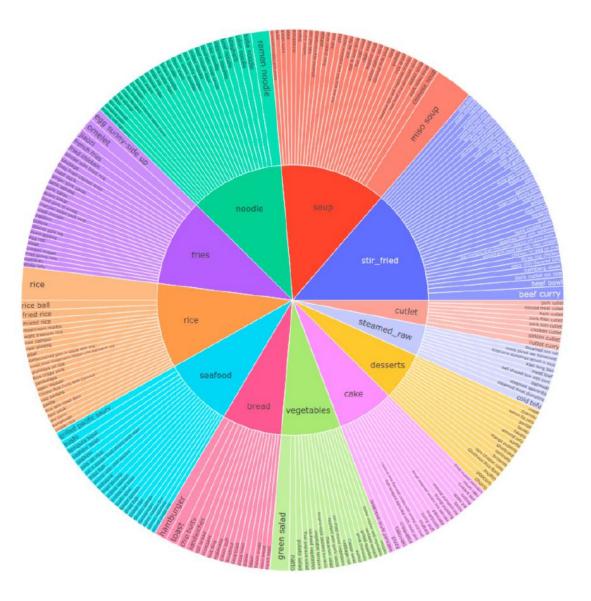






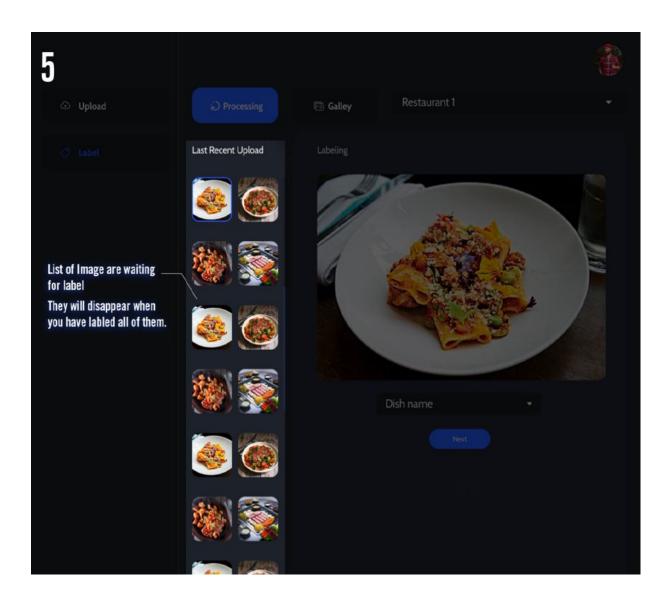
Setting Up Restaurants & Food Menu Digital Library

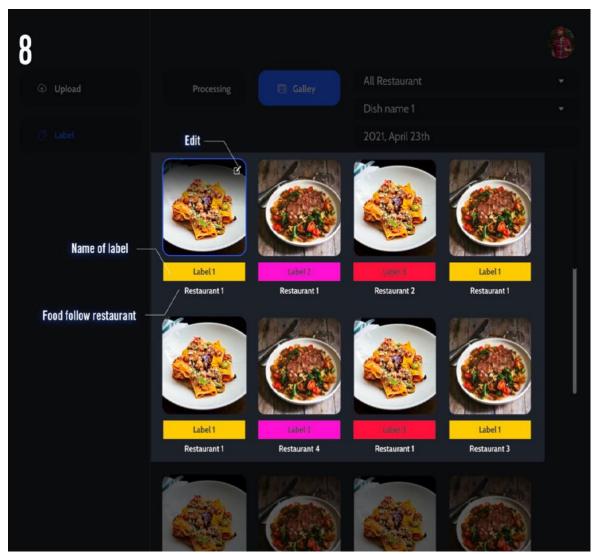






Applying Computer Vision & Machine Learnings







Designing Insights Reporting with the Team



THANK YOU!

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