



# Towards a Smart Region

Challenging Conventions of Resilience  
and Integration



**“I feel like having  
lunch at Chefette!”**

**What does it take to have  
a Chefette Lunch?**



# What does it take to have a Chefette Lunch?

Advanced Planning



# What does it take to have a Chefette Lunch?

Advanced Planning  
+ Travel



## What does it take to have a Chefette Lunch?

Advanced Planning

+ Travel

+ Overnight Accommodation



## What does it take to have a Chefette Lunch?

Advanced Planning

+ Travel

+ Overnight Accommodation

---

= Time

2 Day



## What does it take to have a Chefette Lunch?

Advanced Planning

+ Travel

+ Overnight Accommodation

---

= Time      Money

2 Day

US\$500



## What does it take to have a Chefette Lunch?

Advanced Planning

+ Travel

+ Overnight Accommodation

---

= Time

Money

Energy

2 Day

US\$500

9.5Kg CO<sub>2</sub>



# Correcting Our Approach

# Our Current Approach



**Infrastructure**

# Our Current Approach



**Infrastructure**



**Technology**

# Our Current Approach



**Infrastructure**



**Technology**



**Cost**

# A Lighting Example



**Infrastructure**



**Technology**

Savings  
**50%**  
3 year Payback

**Cost**

# A Better Approach



# A Better Approach



# A Better Approach



# A Better Approach



# A Well Lit Environment

## People



- Safety and Security
- Sense of Place
- Wayfinding

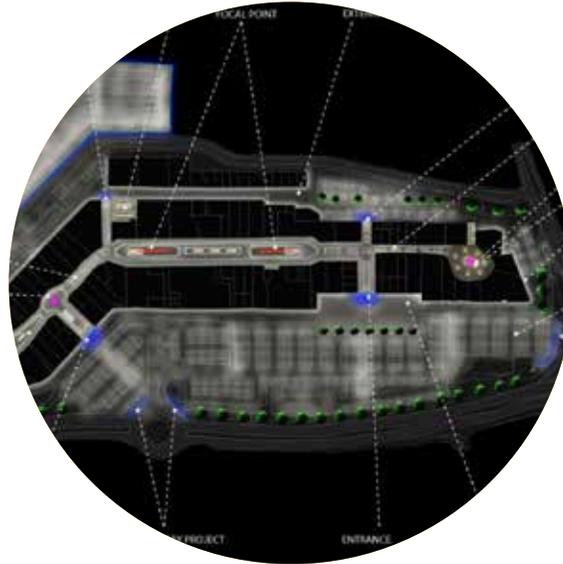
# A Well Lit Environment

## People



- Safety and Security
- Sense of Place
- Wayfinding

## Solution



- Appropriate light levels, temperature and colour
- Decreased glare
- Feature lighting
- Facilitate movement

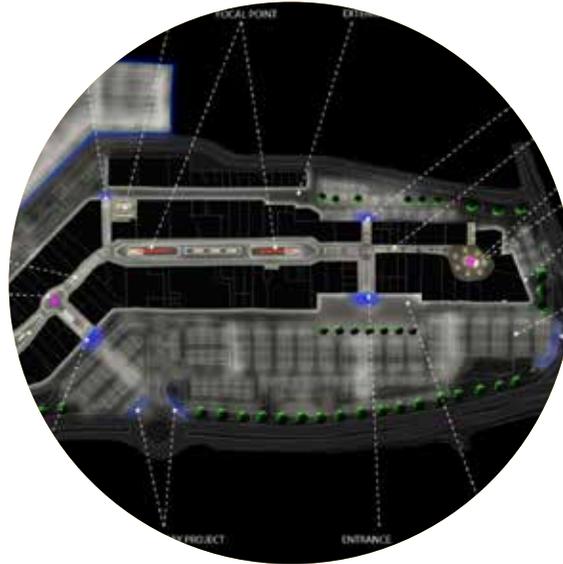
# A Well Lit Environment

## People



- Safety and Security
- Sense of Place
- Wayfinding

## Solution



- Appropriate light levels, temperature and colour
- Decreased glare
- Feature lighting
- Facilitate movement

## Results



- Better experience
- Potentially greater energy savings
- Safer environment

# Some Smart City Solutions

# Parking

## 1 Check



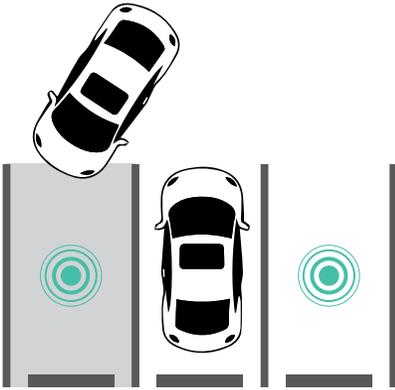
Number of available slots

## 2 Directions



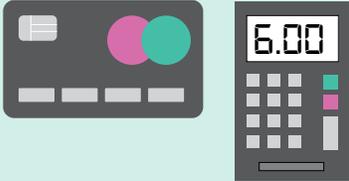
Navigate driver to parking area

## 3 Parking



Sensors gather real-time data

## 4 Payment



Convenient methods of payment

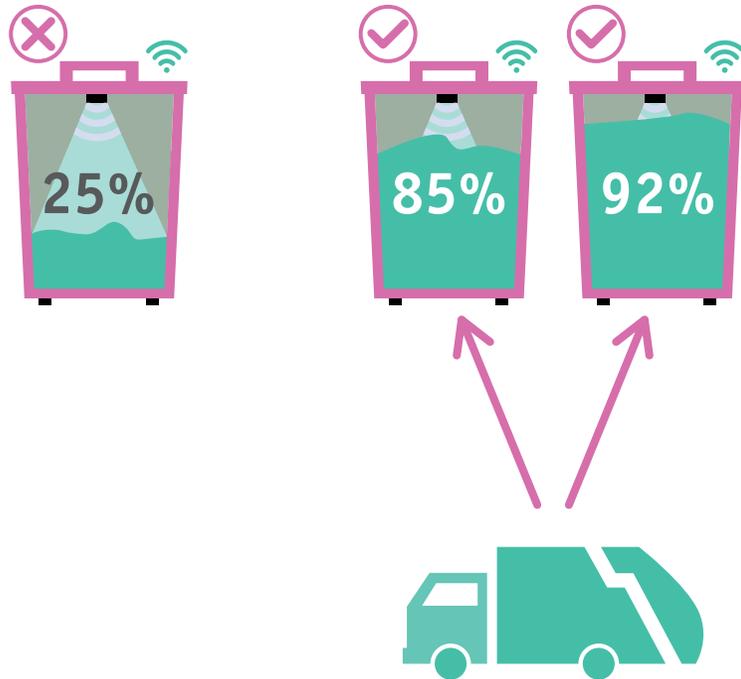
## 5 Monitor + Analyse



Historic Data, Reports and Visualisation

# Smart Waste

## Smart Bin



## Service Provider Control

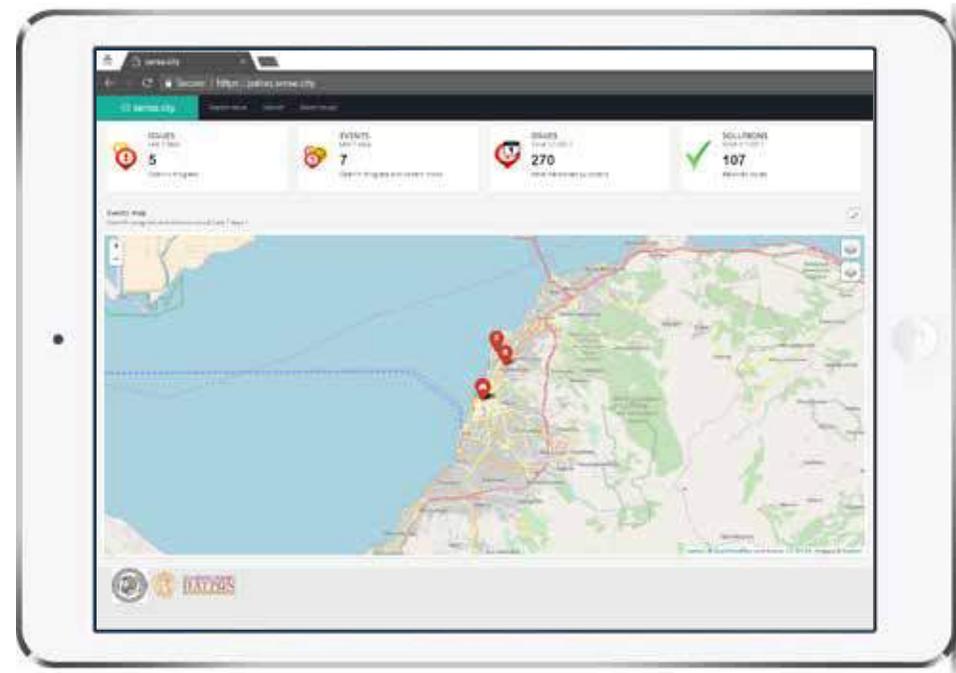
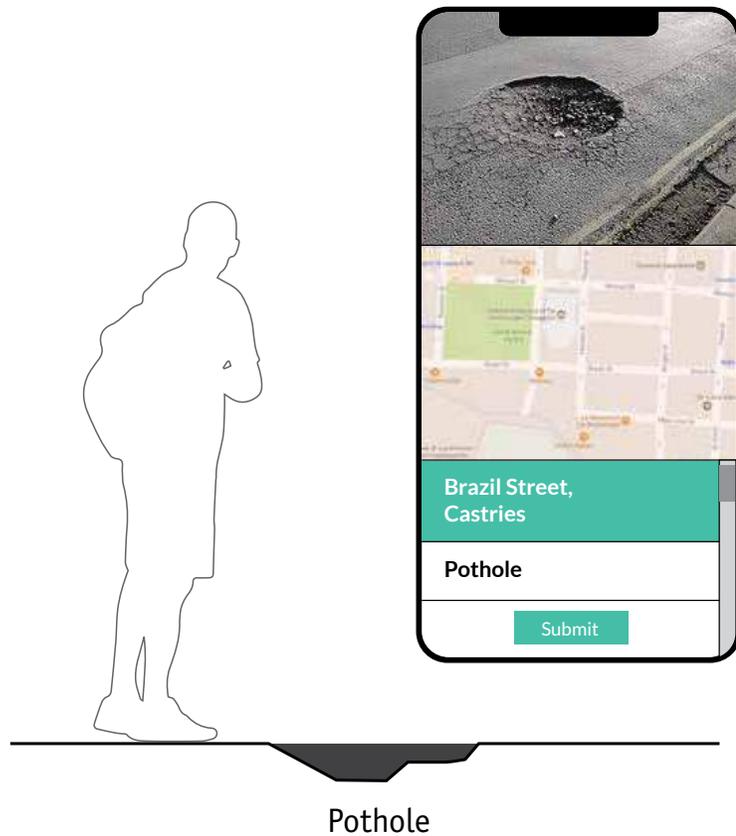


# Smart Governance

**Citizen**

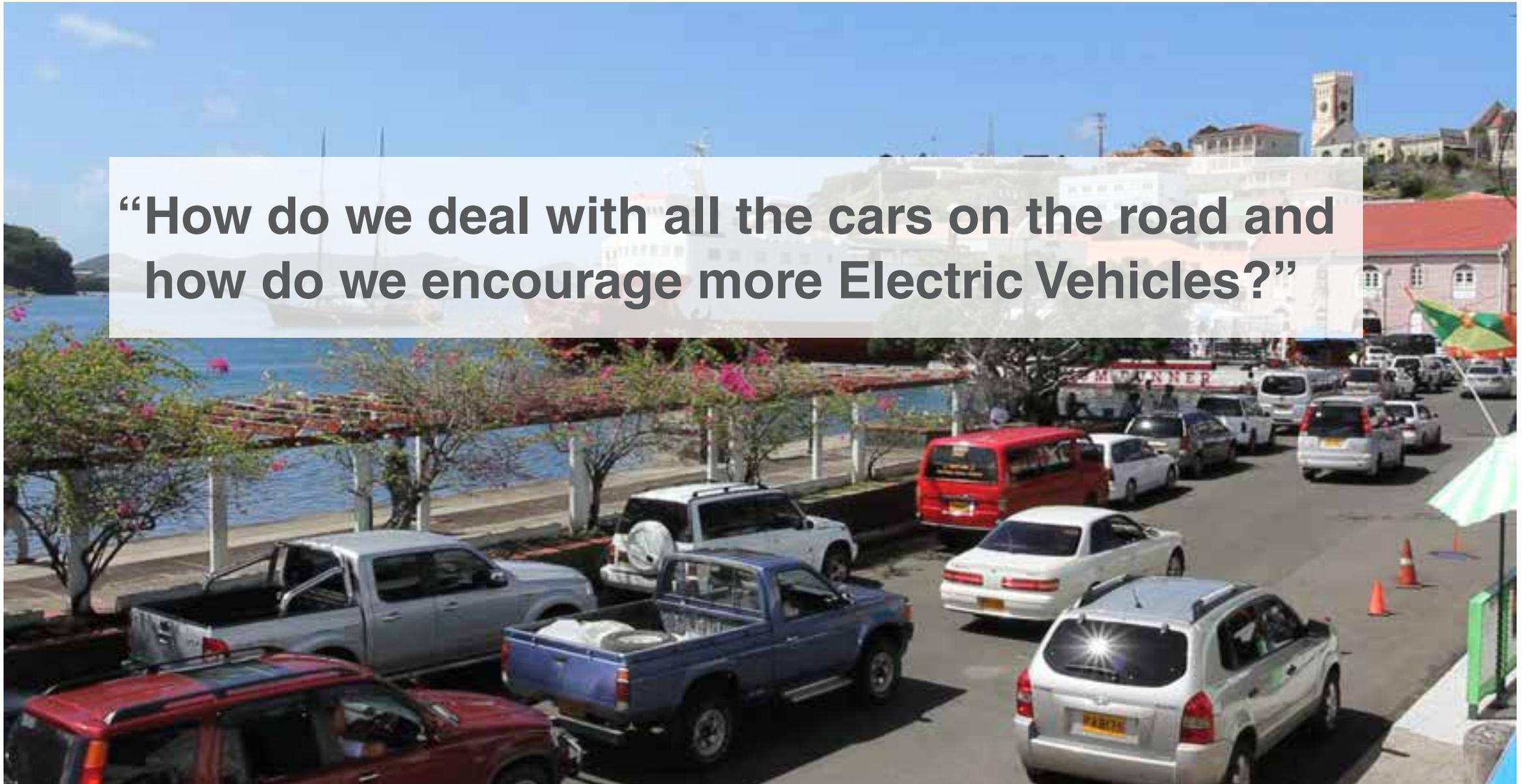
**Mobile App**

**City Council**



# Dealing with Transportation

**“How do we deal with all the cars on the road and how do we encourage more Electric Vehicles?”**





# Mo' Roads Mo' Problems

EAST OF GRAND AVE  
OVER 4 1/2 TONS

BUSES AND  
CARPOOLS ONLY  
3AM-10AM MON-FRI  
3PM-7PM  
San Francisco  
ONLY

END  
CARPOOL  
LANE  
600 FEET

580 Oakland 880  
San Jose

80  
San Francisco  
3 RIGHT LANES

EXIT  
9



**“I’m buying a  
Compactor”**

A dark blue Tesla Model S is shown from a front-three-quarter view, driving on a dirt road through a field of tall, dry grass. The car's headlights are on, and the background features a sunset sky with soft, warm colors. The car's sleek design and silver wheels are prominent. A semi-transparent white box with black text is overlaid on the right side of the image.

**You're as unique as a  
Tesla in a Country Field**



**How does my colleague get to Chefette for lunch, efficiently and in a way which can be afforded?**

# The Challenge is not Transportation... It's **MOBILITY**



People



Goods

# MOBILITY at a **Community** Level



Shared Streets



Share Electric Bikes



Mixed use Spaces

# MOBILITY at a **National** Level



Public Transport



Electric Vehicles



Shared Cars +  
Park and Ride

# MOBILITY at a **Regional** Level



Air Taxis



Electric Ferries

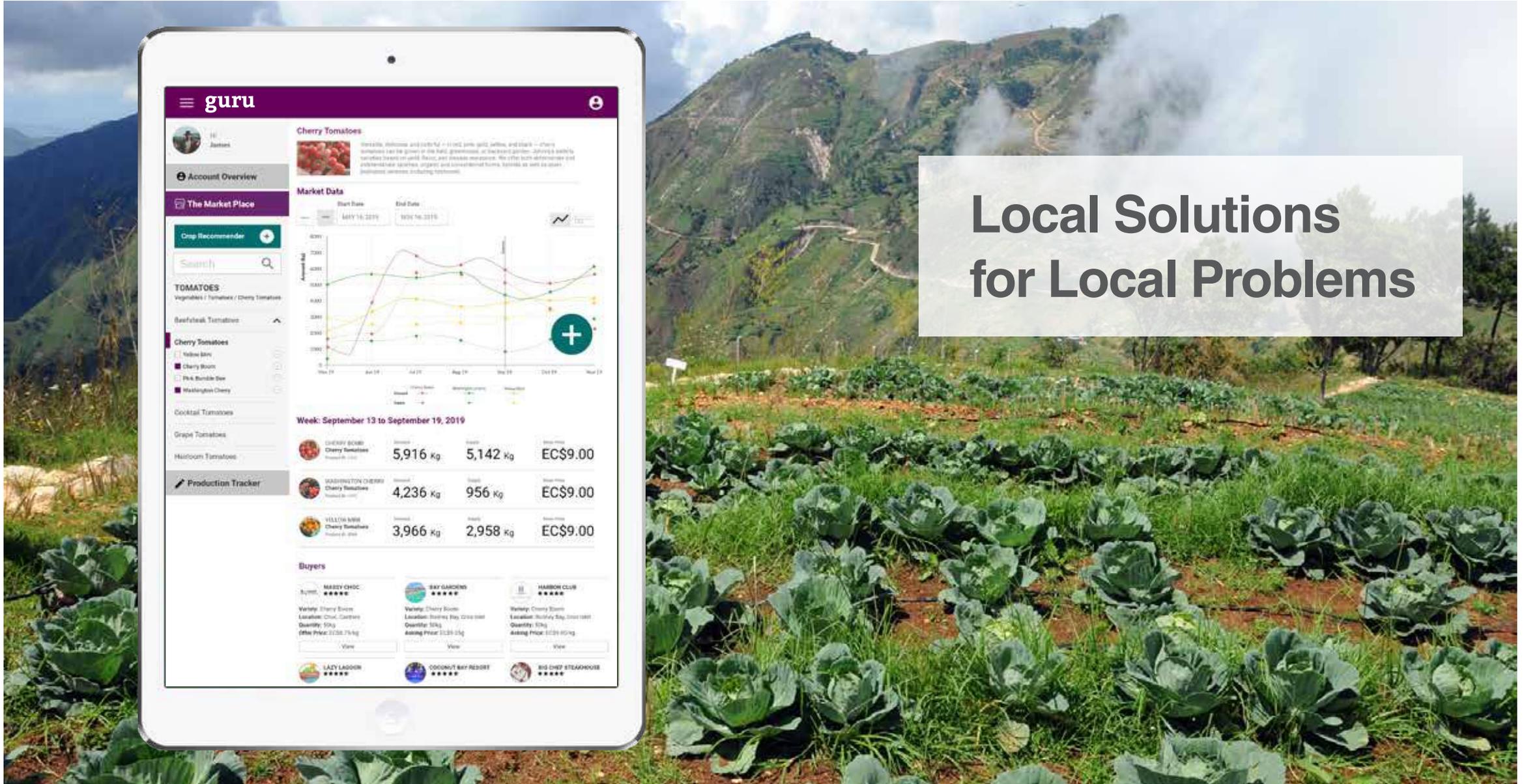
**How do we overcome the  
implementation hurdles?**

A black and white photograph showing a person lying in a hospital bed. The person's feet are in the foreground, showing signs of poor circulation or neglect, such as discoloration and swelling. A hand is visible near the feet, possibly providing care. The background is blurred, showing the hospital bed and some furniture. A white text box is overlaid on the right side of the image.

**Get the Problem  
Right**

An aerial photograph of a white flying wing aircraft with a dark cockpit, flying over the New York City harbor. The aircraft is positioned in the lower center of the frame. In the background, the Manhattan skyline is visible across the water, including the Freedom Tower. The Statue of Liberty is on a small island to the right. The sky is blue with scattered white clouds. A semi-transparent white box with black text is overlaid on the right side of the image.

**The Technology  
Already Exists**



**guru**

Account Overview

The Market Place

Cherry Tomatoes

Market Data

Week: September 13 to September 19, 2019

Product	Quantity	Weight	Price
CHERRY BOMB Cherry Tomatoes	5,916 Kg	5,142 Kg	EC\$9.00
WASHINGTON CHERRY Cherry Tomatoes	4,236 Kg	956 Kg	EC\$9.00
YELLOW BOMB Cherry Tomatoes	3,966 Kg	2,958 Kg	EC\$9.00

Buyers

Buyer	Rating	Variety	Location	Quantity	Asking Price
MARISY CHIC	★★★★★	Cherry Bomb	Chic, Gambia	50kg	EC\$ 2,338.75/kg
SKY GARDENS	★★★★★	Cherry Bomb	Boonies Bay, Gambia	50kg	EC\$ 2,338.75/kg
HARBOR CLUB	★★★★★	Cherry Bomb	Boonies Bay, Gambia	50kg	EC\$ 2,338.75/kg
LADY LADON	★★★★★				
COCONUT BAY RESORT	★★★★★				
BIG CHEF STEAKHOUSE	★★★★★				

Local Solutions for Local Problems



**Inspire**



**Facilitate Local Investment**

A photograph of a male boxer in a ring, celebrating a victory. He is shirtless, wearing red boxing gloves and red shorts. He has a large, intricate tattoo on his left shoulder and chest. His mouth is wide open in a shout, and his eyes are closed. The background is dark with bright spotlights creating a dramatic atmosphere. A semi-transparent grey box is overlaid on the right side of the image, containing the text "We Need Champions".

**We Need  
Champions**

**More Importantly, We need Regional  
Integration**





# Thank You

Jade Hutchinson

758 723 878

[jade@noah-energy.com](mailto:jade@noah-energy.com)