

IADB PIVOT EVENT

# MOONSHOTS

October 30th, 2020



# Electric Vehicles

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# Green Hydrogen Powerhouse






# It is forecast that green hydrogen will reach parity with grey hydrogen by 2030

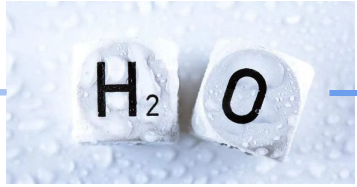
analysis by the IHS Markit [Hydrogen and Renewable Gas Forum](#).

## Could the Caribbean lead the world in the development of green hydrogen?

Using wave, current.

 **We have these resources in abundance**



Grey hydrogen	Blue hydrogen	Green hydrogen
Split natural gas into hydrogen and CO <sub>2</sub>	Split natural gas into hydrogen and CO <sub>2</sub>	Split water into hydrogen by electrolysis powered by water or wind
CO <sub>2</sub> emitted in the atmosphere	CO <sub>2</sub> stored or reused	No CO <sub>2</sub> emitted



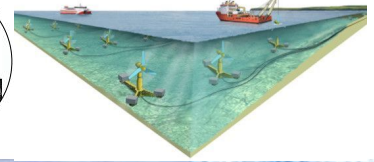
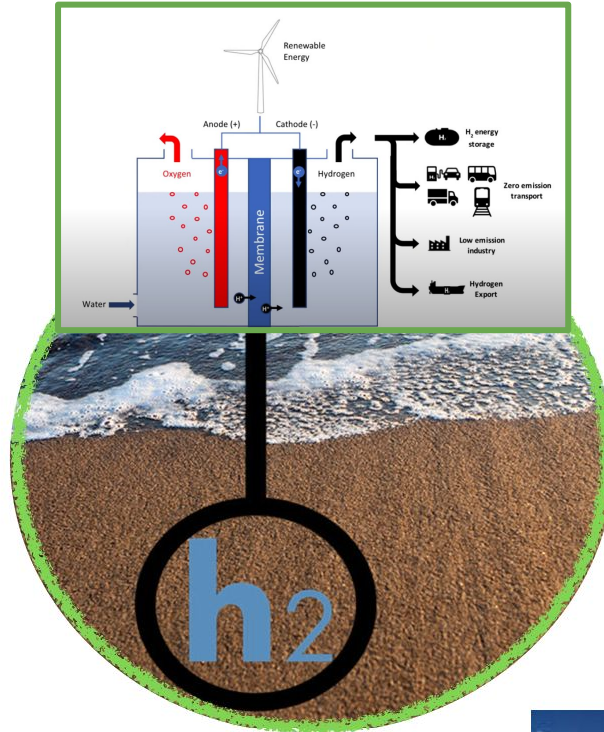


# Hydrogen-powered transportation (and more)

# Closed loop green hydrogen production inputs



Modular hydrogen fuel cell tech



Hydrogen

Most abundant element in the known universe

Sea Wee Concept

# Electric Vehicles

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# Sea Wee

Connecting the Caribbean  
through  
Culture & Commerce



LIKKLE WEE



SEA WEE PARTIALLY  
SUBMERGED



SEA WEE  
HYDROFOILING





# Sea Wee On Board



Move through the region in a uniquely Caribbean style and fashion

Shop



Dine



Lime



Day trips from northern to southern Caribbean in under six hours

Passengers and cargo can move efficiently between nations

Sonar technology will be utilized to ensure minimum disruption to marine life



# Timeline for Launch

Research  
Partners

Hydrofoil/ hover/  
sub tech

Wave/ wind  
energy pilots

Hydroplane  
innovators

Identify speed  
shipping routes

2021

Prototype  
Incl Pods

Build prototype to  
run on hydrogen

Work on speed  
with engineers

Likkle Wee pods  
carrying cargo

Locating fueling  
ports

2025

Several  
Vessels min  
speed  
150MPH

Autonomous vessels  
running from ports

Likkle Wee pods  
carrying people and  
cargo

Wave energy  
producing  
blue/green  
hydrogen

2030

Routes  
Speed

Fully autonomous  
Expanding across  
region

Focus on increasing  
speed for longest  
journey

Possible new  
materials, energy  
generation in transit

2035

Sea Wee  
Launch

Achieving speeds of  
260MPH on fast  
route shipping lane

Green hydrogen

2040

Flying Fish Concept

# Electric Vehicles

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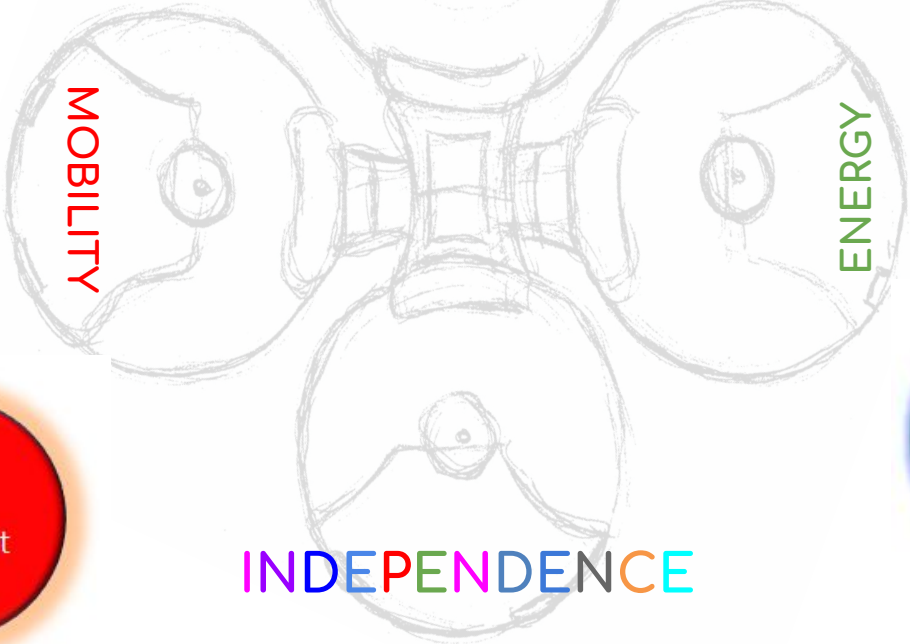
# The Flying Fish

Clean Water

Free Water

Green Energy

Cheap Energy



Eco Friendly

Free Transport



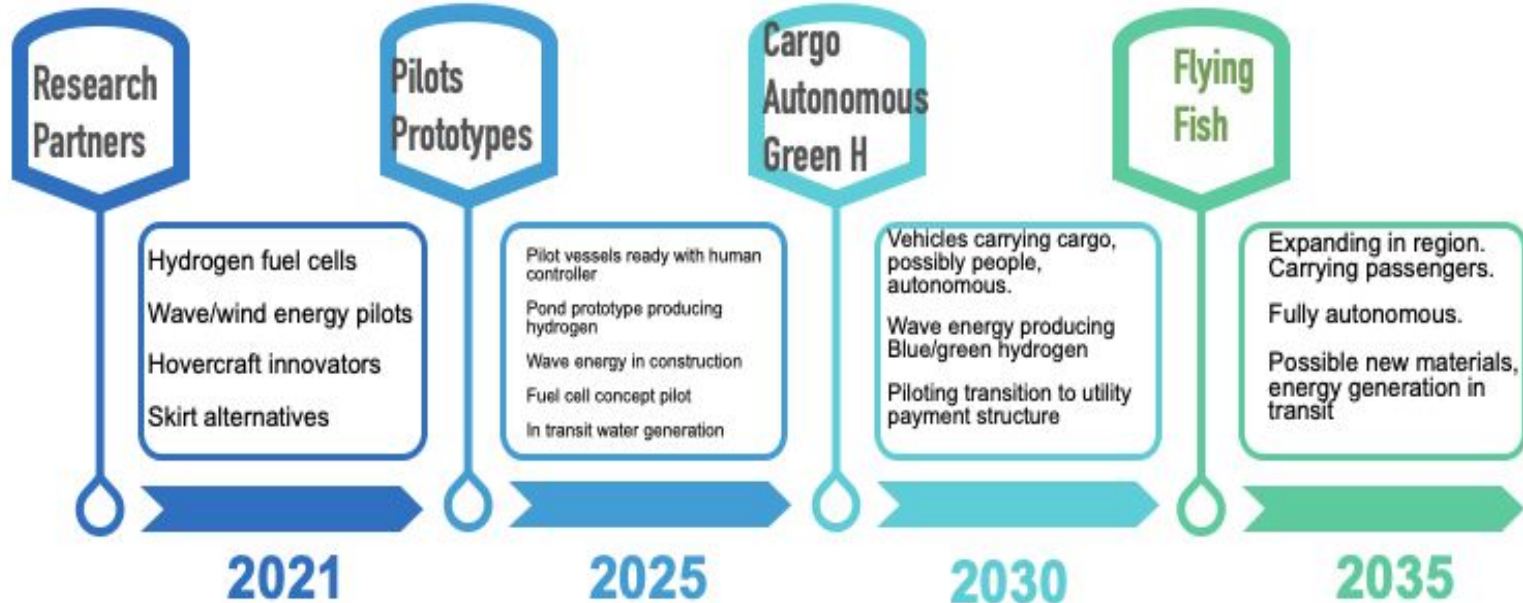
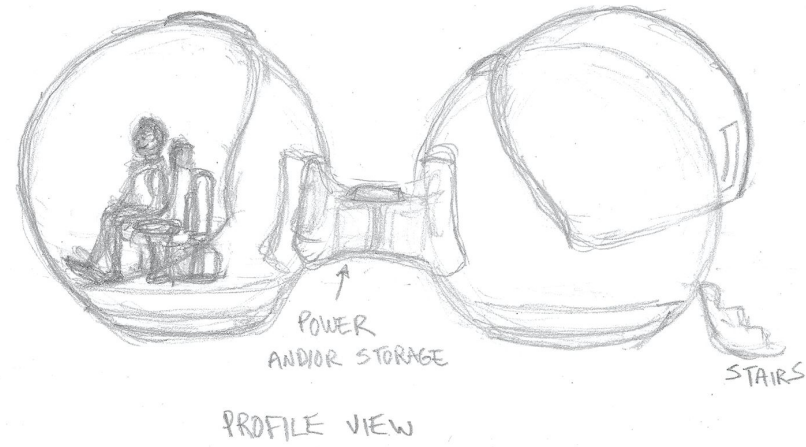
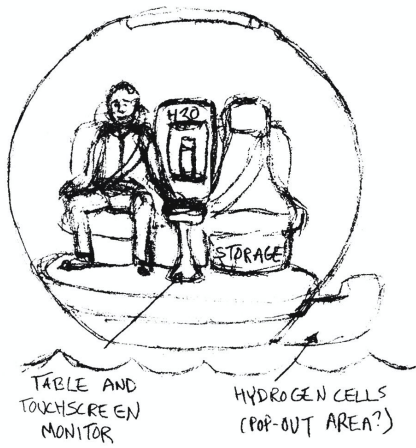
# The Flying Fish

Disruptive, Green, Light Touch

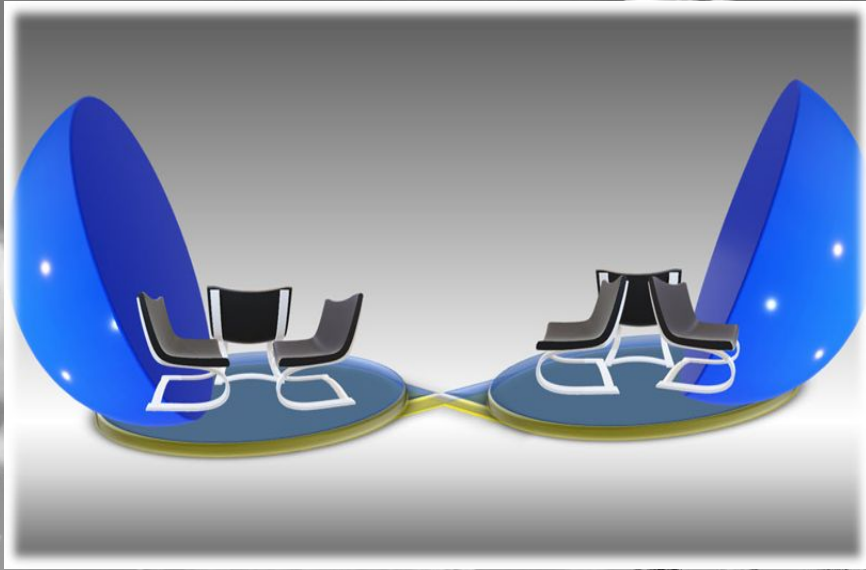
Displacing traditional infrastructure

Decentralized distribution

Workforce transition







Inter-island business travel  
Disaster preparedness  
School Drop-offs  
Easy errands  
Weekend fun



Fete Travail Concept

# Electric Vehicles

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### Research Partners

Evaluate net social benefit of this system - in terms of financing, priorities etc  
ID vertical liftoff partners  
Lockheed re cushion landing

2021

### Prototype

Build working prototype - smaller scale if nec possibly with pilot  
Pilot docking/fueling site  
Determine topographical limits for landing (what cant it do)

2025

### Several in operation

Increasing port infrastructure  
Autonomous driving/flying  
Review materials, onboard energy generation, other uses

2030

### Fete Travail

Operating as commuter & ambulance/medivac throughout the region  
Green hydrogen  
Scale - do we need larger or smaller versions?

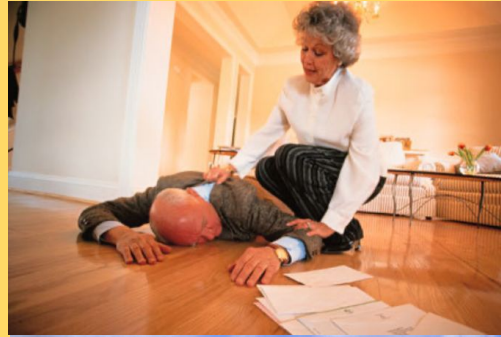
2035





# A Day in the Life of Fete Travail...

Versatile



Accessible

Community Friendly







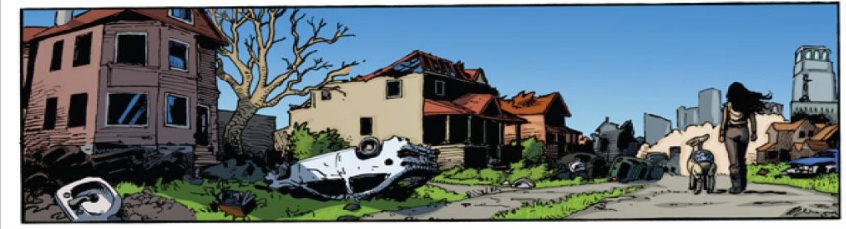
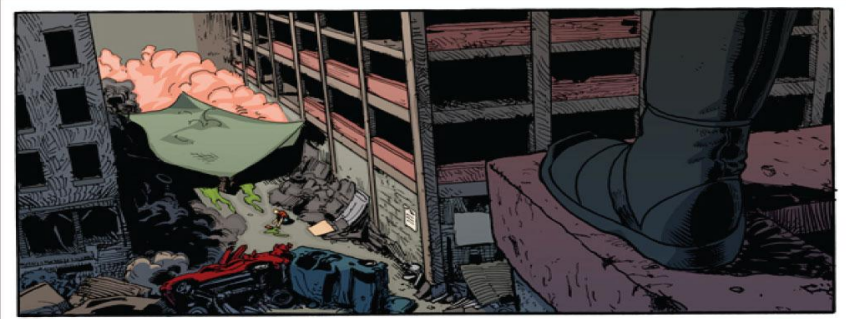
# CHALLENGE



# A VISION FOR 2040



# AND A WAY TO GET THERE



DIGITAL TRANSFORMATION

# H2GROW

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# CHALLENGE

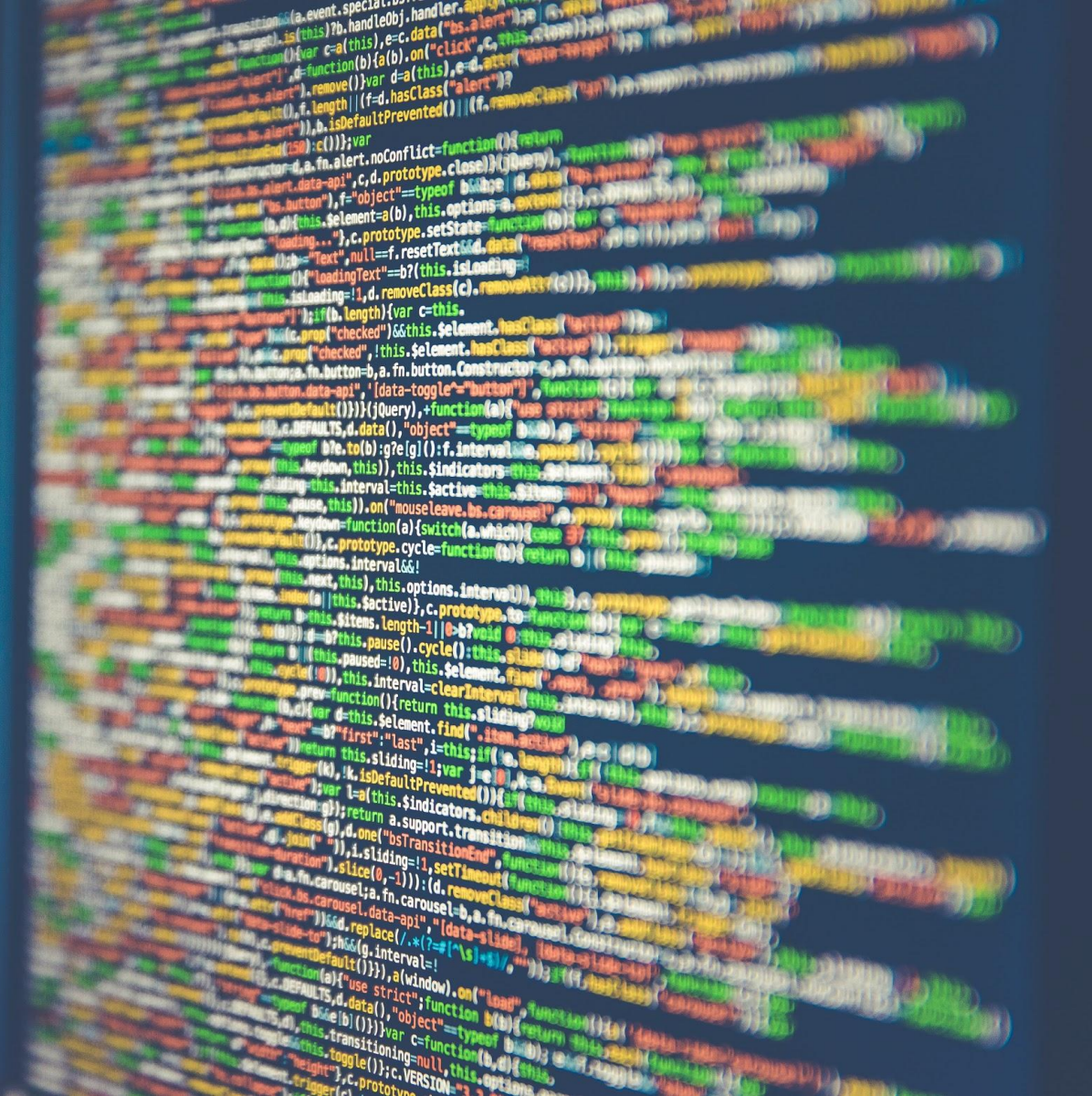
DIGITAL TRANSFORMATION: H2GROW





# CONCEPT/CONTEXT

DIGITAL TRANSFORMATION: H2GROW





**GETTING THERE**

DIGITAL TRANSFORMATION THROUGH





DIGITAL TRANSFORMATION

# BLURRED REALITY

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# CHALLENGE

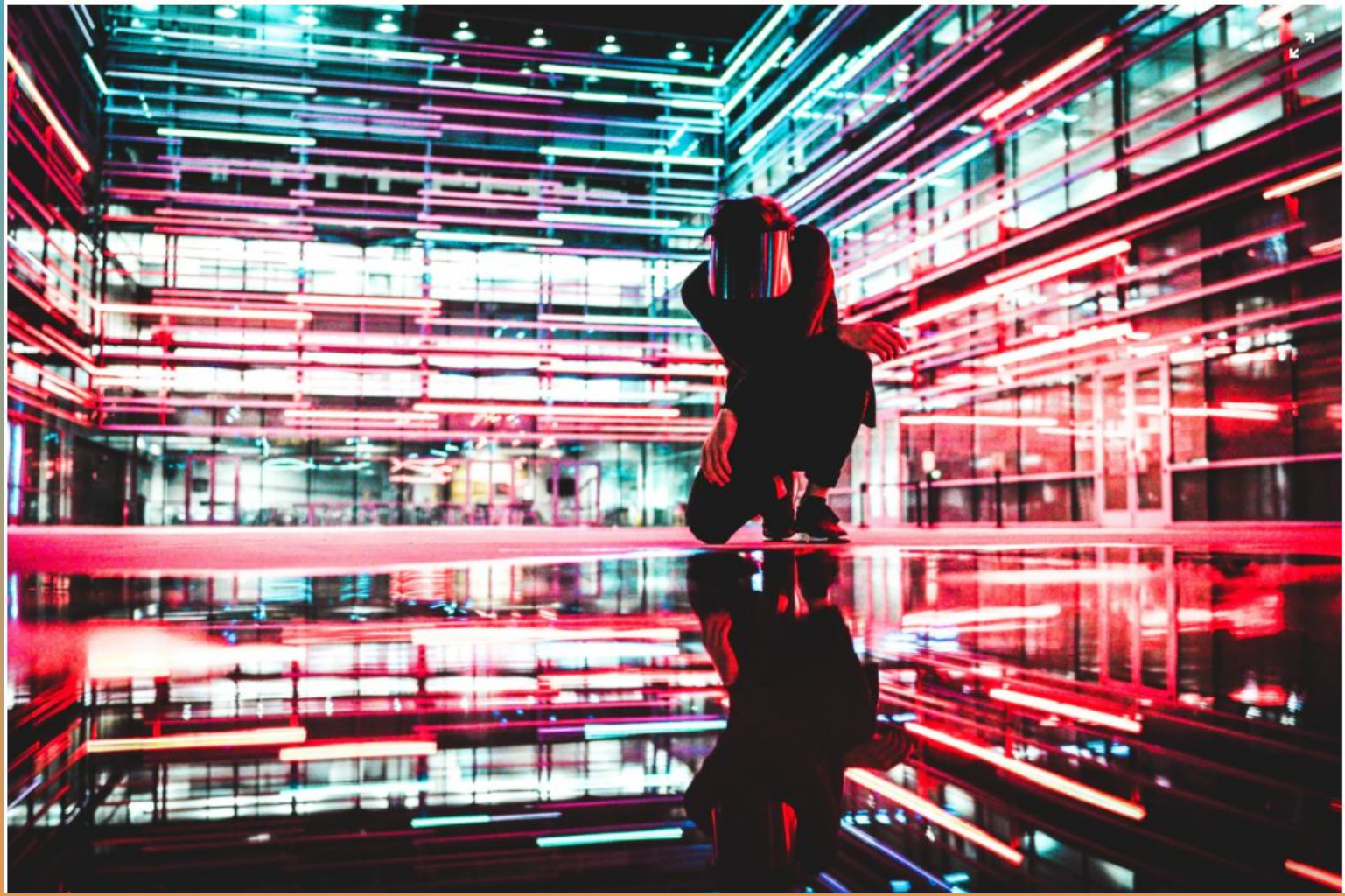
DIGITAL TRANSFORMATION: BLURRED REALITY





# CONCEPT/CONTEXT

DIGITAL TRANSFORMATION: BLURRED REALITY



# CONCEPT/CONTEXT

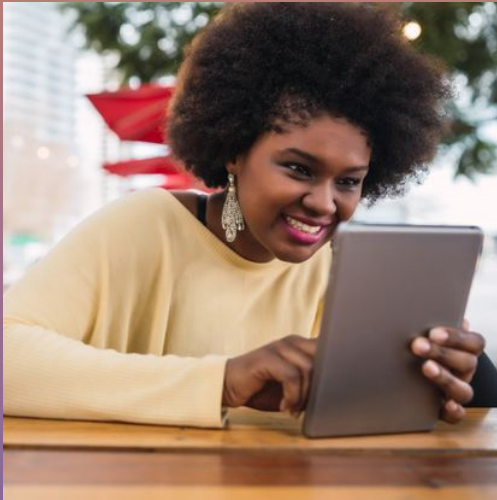
DIGITAL TRANSFORMATION: BLURRED REALITY





# GETTING THERE

DIGITAL TRANSFORMATION: BLURRED REALITY



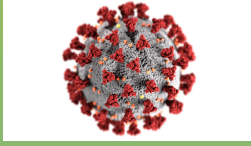
DIGITAL TRANSFORMATION

# MADE IN WATER

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# Disrupted regional supply chain competitiveness



Lower/reduced pace of trade in the Caribbean



Goods



Services

CHALLENGE

# Underwater production facility



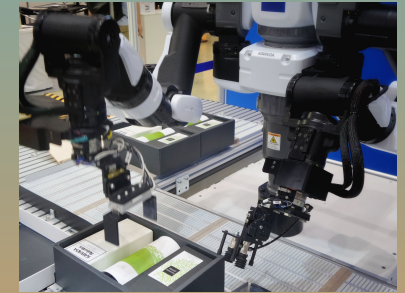
Different means or location of manufacturing products

Water as information network

Easy harnessing of hydro-energy to power operations



3-D Manufacturing and automated manufacturing underwater



Goods/products brought to the surface and loaded on ships



CONCEPT

# GETTING THERE

Assess feasibility, environmental, technological, social, political and economical impact



Regional engagement (government, trained personnel, stakeholders, entrepreneurs, citizens)



Access funding



Commence underwater construction



Begin operation





Group A

# Reimagining Tourism

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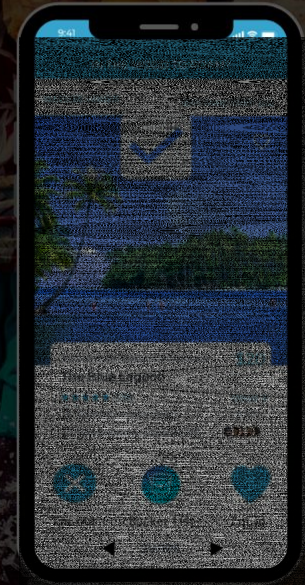
# Reimagining Tourism



# Roam Caribbean

Creatively revolutionizing  
the way we travel.

*Sub Group 1*



## *The Problem*

How to optimize, preserve, make accessible and create transformative, immersive caribbean cultural experiences in 2040?

## *The Moonshot*

To create a digital twin of the Caribbean, with a plethora of sensors in restaurants, clubs, beaches, underwater, forests which would allow for the creation of virtual immersion experiences.





# Imagine...



## *Drone Deliveries*

Imagine laying on the beach in Montego Bay and in comes a tiny drone delivering your very own tailored made souvenir package with "All things Jamaica"

## *Augmented Reality*

Imagine being on vacation in St Lucia and receiving clues to find hidden digital treasures for points! - Like finding a digital dancing banana at the top of a waterfall, followed by a full on history on the banana industry in St Lucia!

## *Immersive Virtual Reality*

Imagine your boss denied your time off and now you're stuck in NY in the cold weather missing out on Trinidad Carnival. So Yuh have a tabanca, what now? Only the next best thing - feel the music, feel the vibe, feel the sun, feel the wine - but VIRTUALLY.

## *3D Printing*

Imagine you're a local pan maker and you just delivered a request for a 3D Printed Steel Pan all the way in Australia, using your very own signature design.

# How do we get there?

## STEP 1 - CREATE A DIGITAL NETWORK

A very creative, interconnected travel app for the entire caribbean, allowing users to browse activities, chat with travellers and service providers, book, pay and share their experiences with a community of travellers, all in a very interactive and unique manner.

## PILLARS FOR SUCCESS

★ Digitization of Info

★ Connect

★ E Commerce

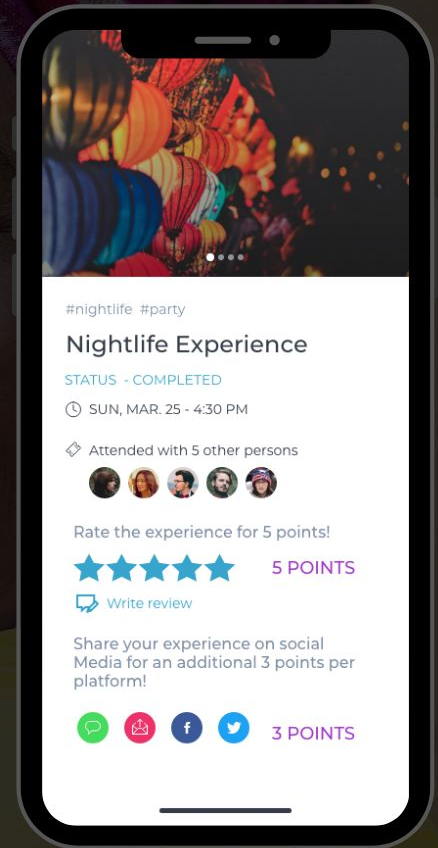
★ Data

★ Reward System

★ Building Credibility (Reviews)

★ Sustainability Plan (Donations)

★ One Voice, One Brand



Group B

# Reimagining Tourism

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**Siya Ed- South African education business**



**OUR CHALLENGE:  
BY 2040 TO ACHIEVE FULLY  
ENVIRONMENTALLY REGENERATIVE  
AND SOCIALLY INCLUSIVE TOURISM**

**CURRENT REALITY:**

“The national bourgeoisie organizes centres of rest and relaxation and pleasure resorts to meet the wishes of the Western bourgeoisie. Such activity is given the name of tourism, and for the occasion will be built up as a national industry”

- Franz Fanon



**Zandals- Hotel chain**

**Kevin- tour operator/DJ/Civil Servant**



**Ms Imo- Farmer in the hills**



**Sha Rou- Chinese businesswoman**



Carbon



Carbon credit tourism economy



Kevin & Imo Collectives

'Total Capital' Investments



# WHAT IT WOULD TAKE TO GET THERE

RE-EDUCATION



ACCOUNTABILITY for TRANSPARENCY



MAINSTREAM RENEWABLE ENERGY & Infrastructure



PEOPLE CENTRED EXPERIENCES



able accountability adopted agriculture appealing areas artificial based  
behavior biodiversity biology blended blockchain carbon caribbean climate  
communities creating culture currently decontamination design destinations  
digital eco enjoy experiences experiencing finance flora food form fully green hardware  
helps heritage ideas immersive inclusive incorporate indigenous intangible integrated  
intelligence interact investing iot level lifestyle living major  
manufacturing microscopic models naming nomad organisms people  
problem reality reconfigurable regenerative smart synergy tangible  
term tourism tourist transparency transport used virtual vision water



Group C

# Reimagining Tourism

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# 2040 CHALLENGE

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chaos      disconnect  
                    conflict  
shame    imbalance  
power            desire  
                    materialism  
corruption      sadness  
                    loneliness



**POSITIVITY GRATITUDE**  
**BALANCE INNER STRENGTH**  
**NATURAL BEAUTY TRUE POTENTIAL**  
**ACCESS GROWTH MINDSET**  
**CONNECTION**



**CARIBBEAN  
AMBASSADORS  
OF ABUNDANCE**





**Transformation**