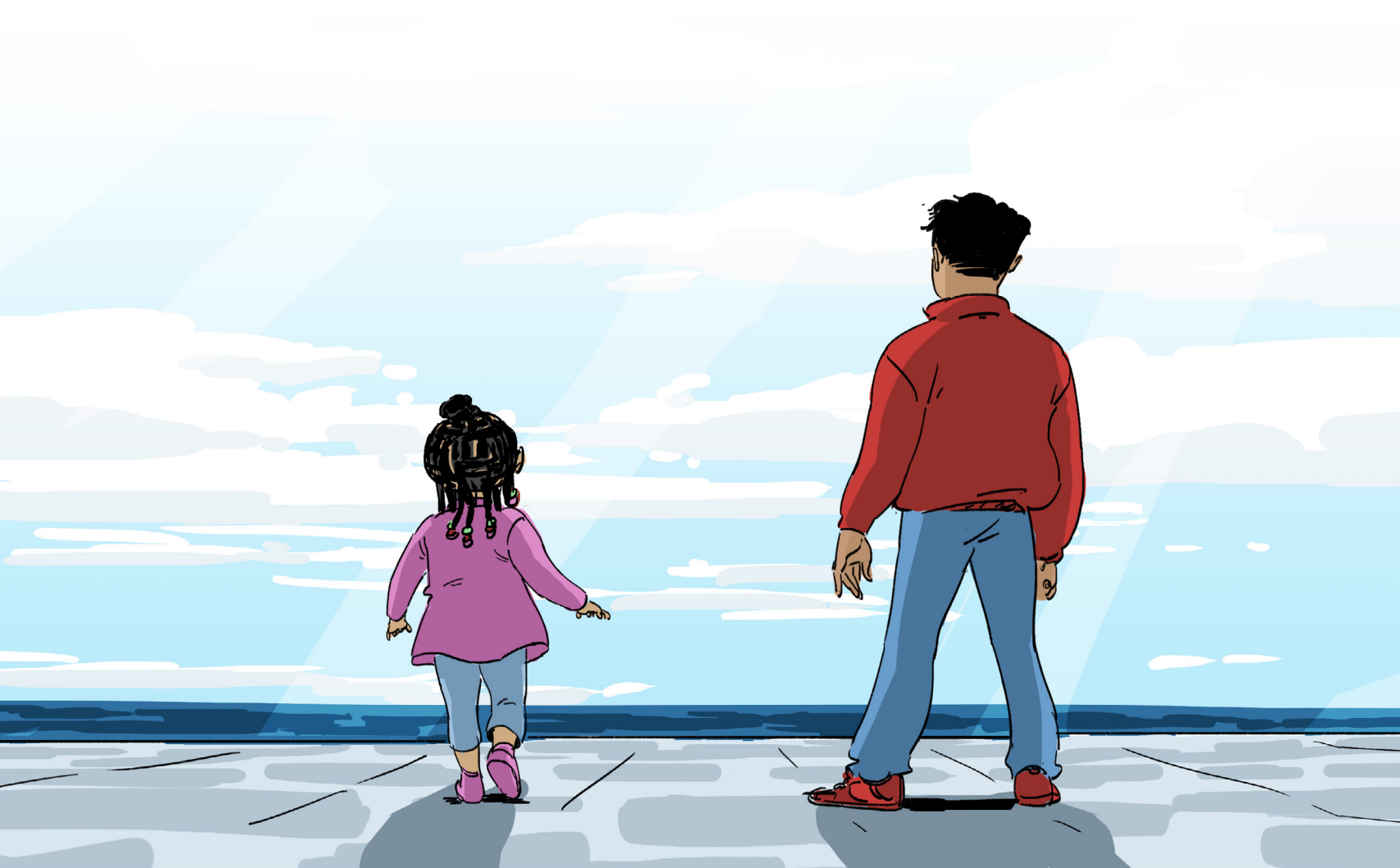


PIVOT

THE FUTURE MAKERS



**BUILDING
OUR
PEOPLE
AND
PLACES**





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CARIBBEAN BACKSTORY



Before the 21st century, the Caribbean was a collection of island and coastal territories connected by climate and a common sea. Shawn Smith was born in Suriname, about 9 months after Owru Yari 2000. As one of the first citizens of the new millennium, he grew up during an age of political and economic turmoil under an unprecedented wave of global technological advancement.

At a young age, Shawn's exposure to the cultures, languages, and people of the Caribbean fostered his lifelong fascination with humanity, but no one fascinated him more than his secondary school sweetheart, Preeta Singh. He and Preeta married in front of family and friends before they both moved to Miami, where Shawn earned a PhD in Sociology.

Shawn graduated in 2025. That same year, Preeta gave birth to their son, Ricky. Meanwhile, the Caribbean rose in global prominence, unifying politically and economically to lead the world in the development of an environmentally-conscious ideology and, most notably, the technological development of Green Hydrogen Energy as a zero-emission fuel source.

These breakthroughs opened the door to a plethora of technologies that further enhanced the region's status in the world. By the time Preeta and Shawn welcomed their second child, Marlyn, Shawn had become fascinated by the developments in the Caribbean, already a major force for innovation across the world.

By 2040, the Singh-Smiths have recently moved back to the Caribbean. Shawn has secured a job studying the societal benefit of the many transformative inventions emerging from his former home. His family accompanies him on a day of sightseeing as Shawn begins a journey to the most difficult-to-access of those inventions...

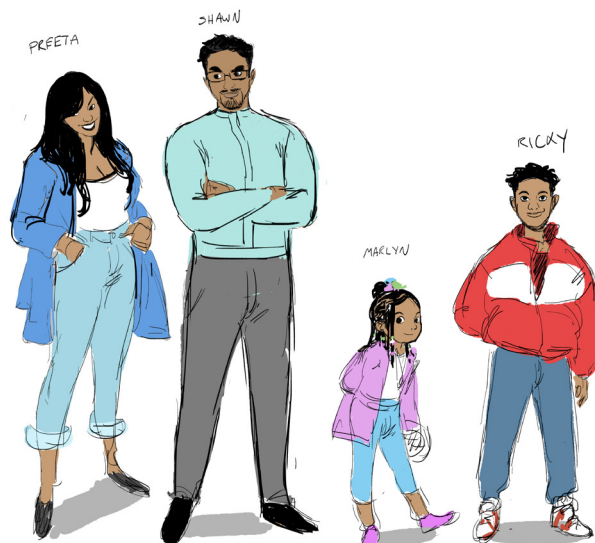


TABLE OF CONTENTS



ACKNOWLEDGEMENTS

THE PROCESS

ABOUT THIS MANIFESTO

PIVOT 2020 FUTURE MAKERS COHORT

CHAPTER 1: CARBON OFFSET-BASED LIFESTYLES

CHAPTER 2: YOU, ME, AND SEA WEE

CHAPTER 3: MADE IN WATER

CHAPTER 4: MANAGER OF INTEGRATED SOCIETAL SYSTEMS IN THE
CARIBBEAN (M.I.S.S.C.)

CHAPTER 5: BLURRED REALITY, VIRTUAL CLARITY

CHAPTER 6: FLYING FISH

CHAPTER 7: AMBASSADORS OF ABUNDANCE

CHAPTER 8: FÊTE TRAVAIL

CHAPTER 9: CARIBBEAN REALITY

JOIN US!

ACKNOWLEDGEMENTS



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- Kirk-Anthony Hamilton, Founder at The Destination Experience
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“We must have the cultural confidence to develop technologies of our own kind, on a timeline that plays to our strengths and which captures the imagination of our own people.”



Hon. Mia Mottley,
Prime Minister of Barbados

THE PROCESS



The Inter-American Development Bank (IDB) invited Singularity University (SU), a global learning and innovation community, to facilitate workshops with Caribbean leaders and entrepreneurs at the Pivot Event. The objective was to develop moonshots to transform the region. Each team was led by an SU Expert with significant experience and knowledge within the moonshot area. The three areas of focus included: The Future of Transportation, Digital Transformation, and The Future of Tourism.

The SU Experts utilized a strategic narrative and design thinking approach with the Pivot 2020 Future Makers during the event, enabling teams to ideate technology and concepts capable of driving innovation in the Caribbean. Future Makers were pushed to think exponentially about innovative concepts that could lead to significant positive impacts on the societal, technological, economic, environmental, and political aspects of the region. At the culmination of the Pivot Event, each group pitched their moonshot concept to the larger audience.

Following the final pitches, Singularity University continued to explore and unpack how the moonshot concepts might manifest in real life using our strategic narrative process. Each of the nine moonshot concepts in this manifesto have been developed into fictional stories as a simple and powerful means of conveying possible, probable futures.

ABOUT THIS MANIFESTO



For the Caribbean, the nine moonshot scenarios in this book provide a human lens through which to imagine real-life interactions in the future of the region. There are infinite variations of the potential future, but the personas and themes developed for this story are representative of the most impactful challenges and opportunities the Caribbean will face.

Each scenario is illustrated by a talented Caribbean artist.

PIVOT 2020 FUTURE MAKERS COHORT



ELECTRIC VEHICLES

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Ryan Janssen
Stefen Deleveaux
Stephen Price
Steve Bercy
Vashtie Dookiesingh
Victor Molina
Vishok Persaud
Xarielle Gittens

“We love our culture. We love our cuisine. And we love our music. And most of all, we love each other. Our uniqueness binds us. When one Caribbean person succeeds, we all succeed. And history is littered with many of our successful people. So in making these moonshots for the Caribbean, when one idea succeeds, we all succeed.”



H.E. Dr. Mohamed Irfaan Ali,
President of the Cooperative Republic
of Guyana

CHAPTER 1

CARBON OFFSET-BASED LIFESTYLES



ILLUSTRATOR

Mariyah Rahman

THE MOONSHOT CONCEPT

Tourism is one of the central pillars of the Caribbean economy, but the most regrettable trade-off to the financial benefit of so many visitors has been their unintentional impact on the region's environment.

Everything changed by 2040, with the implementation of the Caribbean's Carbon Offset Economy.

Visitors receive discounts on everything from food and drink to travel and lodgings as a reward for leaving a smaller carbon footprint while enjoying the splendor of the region. These discounts are subsidized at every level of the tourism industry, from hotel and vendor chains to local produce suppliers down to independent tour guides working a side hustle. Even promoting the program on social media can provide discounts commensurate with a traveler's public profile, improving the tourist trade and reducing its impact on the Caribbean's natural splendor.

THE CARIBBEAN. TWO KILOMETRES OFF THE COAST OF BARBADOS.

PASSENGER SECTION, LIKKLE WEE 27-C.

...USA SIEMPRE
UN POCO MÁS.
¿TENGO
RAZÓN O NO
TENGO RAZÓN?

EN DUS
VERTELDE IK
HET HAAR...

MI NUH
WUK
SUNDAYS,
MI JUST NA
DWEET...

J'ACHÈTERAIS
ÇA POUR UN
DOLLAR!

7:22 A.M. TUESDAY, JULY 31ST, 2040.

THE CARIBBEAN. TWO KILOMETRES OFF THE COAST OF BARBADOS.

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WUK
SUNDAYS,
MI JUST NA
DWEET...

J'ACHÈTERAIS
ÇA POUR UN
DOLLAR!

7:22 A.M. TUESDAY, JULY 31ST, 2040.

BARBAD TE
DIVEN, MEZANMI.
IF ONLY WE
DIDN'T NEED TO
KEEP MOVING TO
KEEP OUR
SCHEDULE.

I'M EXCITED TO
SEE THE
SULPHUR
SPRINGS!

HAHA!

BARBAD TE
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IF ONLY WE
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I'M EXCITED TO
SEE THE
SULPHUR
SPRINGS!

HAHA!

YOUR TRIP SOUNDS LIKE SO MUCH FUN! HOW DO YOU GO TO SO MANY DIFFERENT PLACES?

ARE YOU TWO RICH?

NIÑITA, DON'T YOU KNOW? THE BEST WAY IN THE WORLD TO TRAVEL AFFORDABLY WAS INVENTED RIGHT HERE IN THE CARIBBEAN. Y ES FAVORABLE TAMBIÉN PARA EL MEDIO AMBIENTE.

ONE MUST SIMPLY FOLLOW THE RULES OF THE CARBON CREDIT ECONOMY...

NON, WE ARE MERE STUDENTS.

YOUR TRIP SOUNDS LIKE SO MUCH FUN! HOW DO YOU GO TO SO MANY DIFFERENT PLACES?

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ONE MUST SIMPLY FOLLOW THE RULES OF THE CARBON CREDIT ECONOMY...

NON, WE ARE MERE STUDENTS.

BY REDUCING ONE'S CARBON FOOTPRINT WHEN TRAVELING, THERE ARE DISCOUNTS PROVIDED TO TOURISM-BASED VENDORS THANKS TO A GOVERNMENT SUBSIDY PROGRAM.

POR EJEMPLO, INSTEAD OF RENTING A CAR, WE HIKE ACROSS PARTS OF ANTIGUA.



KEEPING A GPS RECORD ON OUR PHONES, WE WERE AWARDED CREDIT FOR A FREE HOSTEL STAY IN GUADELOUPE.

AND FOR OUR WHOLE TRIP, WE HAVE BEEN USING COMPOSTABLE, ALGAE-BASED UTENSILS AND CUPS.

WHICH EARNED ENOUGH CARBON CREDITS TO PAY FOR OUR SEA WEE TICKETS TODAY.





CHAPTER 2

YOU, ME, AND SEA WEE



ILLUSTRATOR

Rajendra Ramkallawan

THE MOONSHOT CONCEPT

The Sea Wee is a rigid body public transportation vessel capable of traversing the entire island chain in under six hours, from the Bahamas all the way to Guyana. Sometimes travelling while partially submerged, the Sea Wee can achieve a top speed of 240 miles per hour thanks to its hydrofoils. The Sea Wee's unifying power for the region extends to the onboard experience, which encompasses the entire Caribbean diaspora, from food courts to shopping to an interactive underside observatory with a live display.

Passengers are shuttled from their respective islands to the enormous Sea Wee without interim stops at multiple ports of call by many 'Likkle Wee', smaller, shorter-distance versions of the Sea Wee scattered across the Caribbean, allowing the Sea Wee to cover ground with maximum efficiency. Utilizing shipping lanes and sonar detection of undersea life minimizes direct impact on the ecosystem, but the Sea Wee's most impactful benefit to the environment lies in the way it is powered...

Sunlight, wind, waves, and current. Each of these define the Caribbean and all of these are tappable sources for producing hydrogen energy. When hydrogen is used to generate energy, the only byproducts are water and steam. Back in 2020, a number of industries had begun to use grey hydrogen, which requires a hydrocarbon fuel to produce the hydrogen energy, creating a carbon dioxide byproduct with a negative environmental impact. In developing the Sea Wee and other green hydrogen energy vehicles, the Caribbean became the world leader in defining zero-emission green hydrogen as the premiere energy source across the globe.

NORTH ATLANTIC OCEAN.
SIX KILOMETRES OFF THE COAST OF BARBADOS.

SEA WEE 14-F, FINAL PORT OF CALL:
GEORGETOWN, GUYANA.

IT'S HUGE!

7:51 A.M. WEDNESDAY, AUGUST 1ST, 2040.

BYE! HAVE A GOOD VACATION!
MOM, I MADE NEW FRIENDS.

THAT'S NICE,
MARLYN.

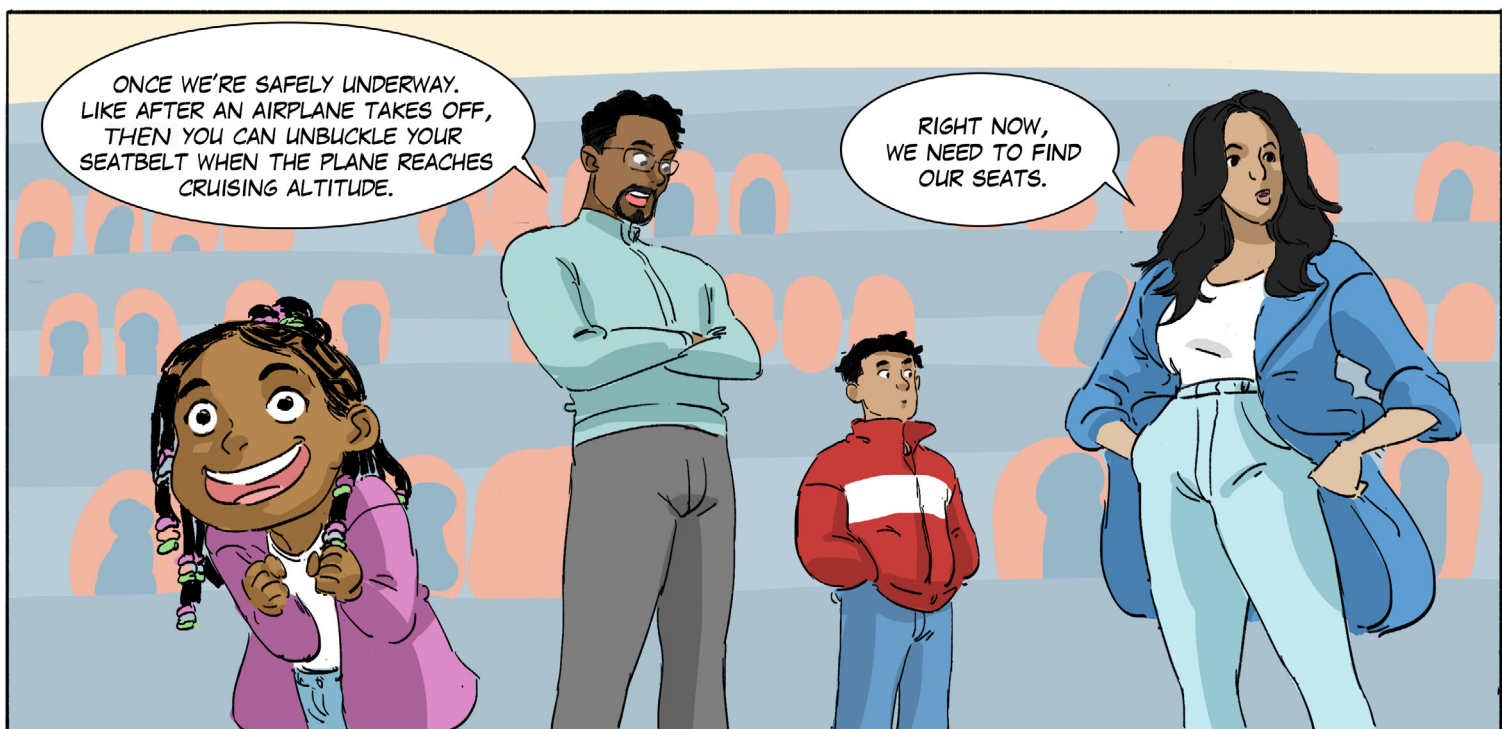
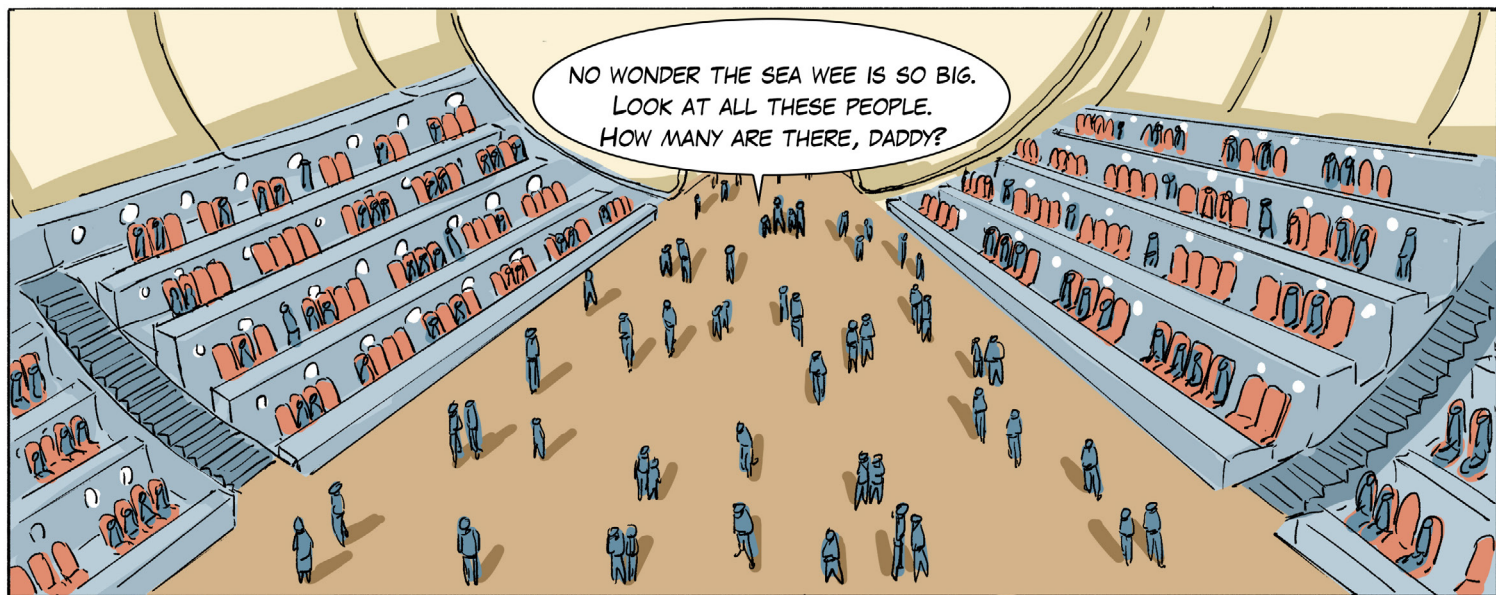
DAD, WHY DO WE HAVE TO GET
ON A TOTALLY DIFFERENT VEHICLE?

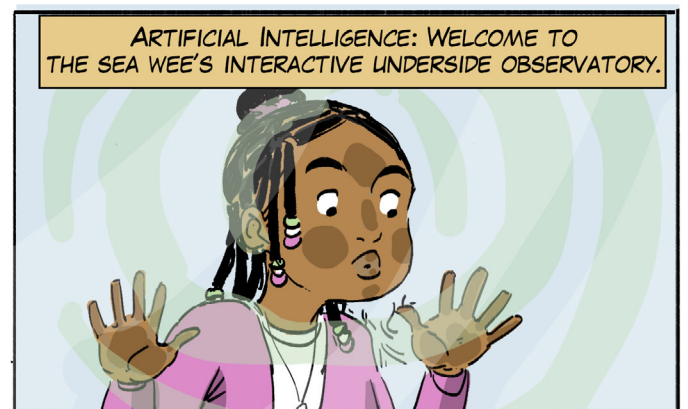
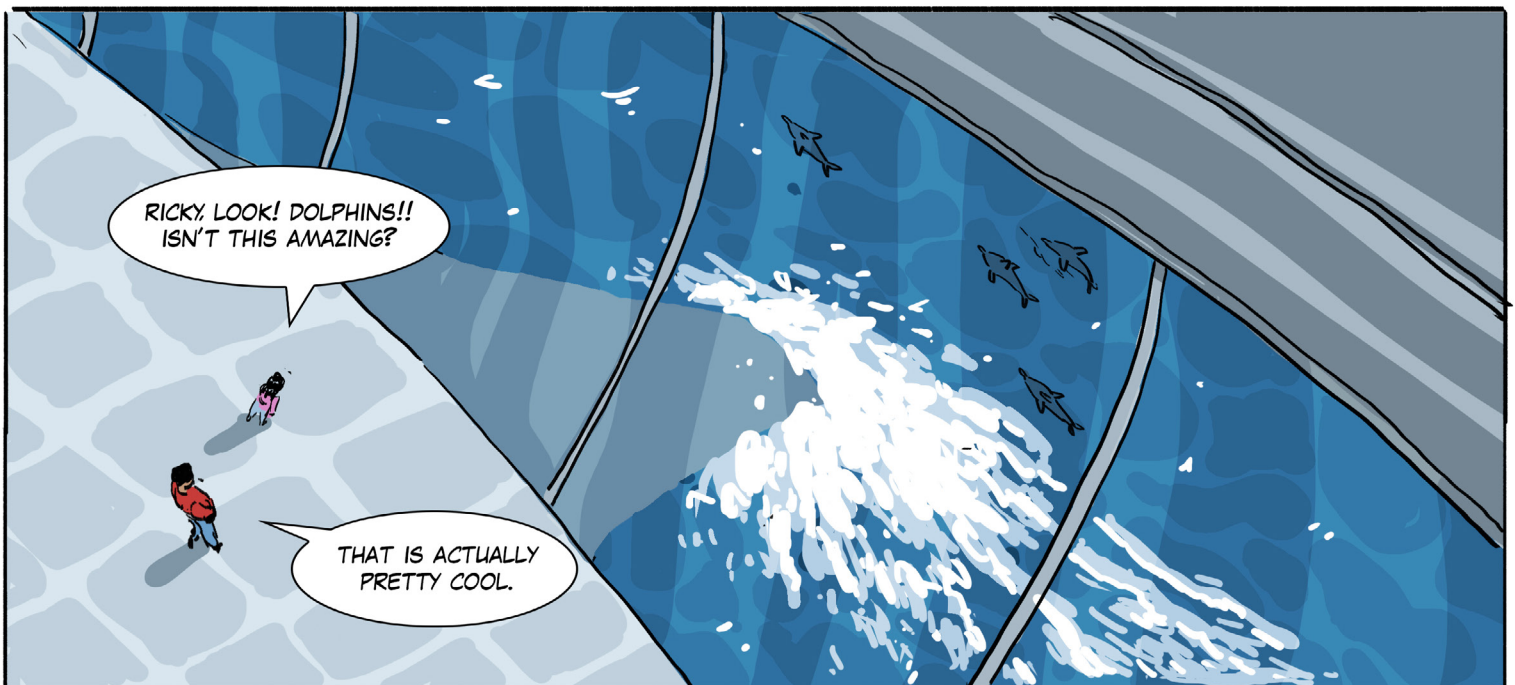
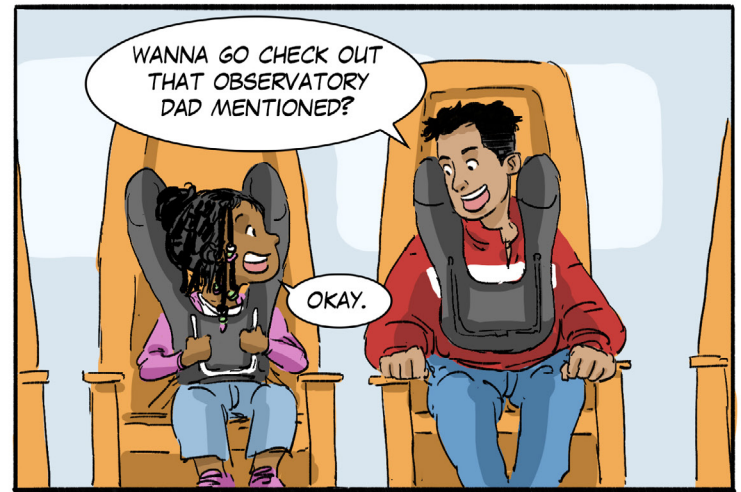
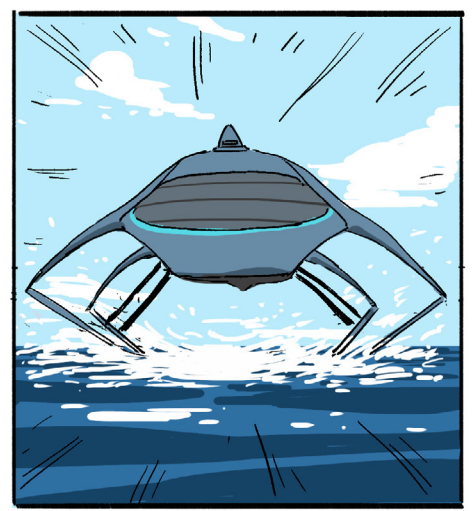
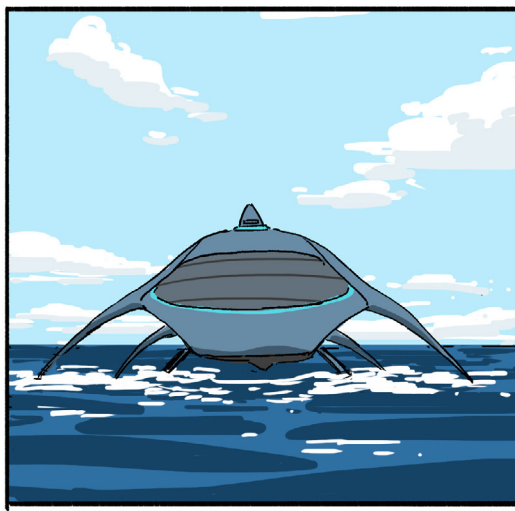
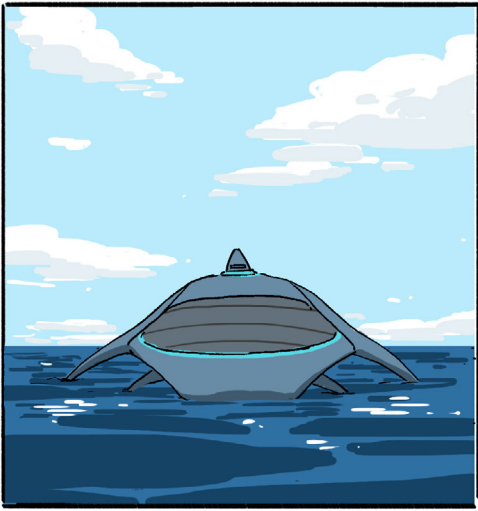
WE'RE TRANSFERRING OFF
ONE OF MANY LIKLE WEE.

THE LIKLE WEE SHUTTLE PASSENGERS
BETWEEN NEARBY ISLANDS.

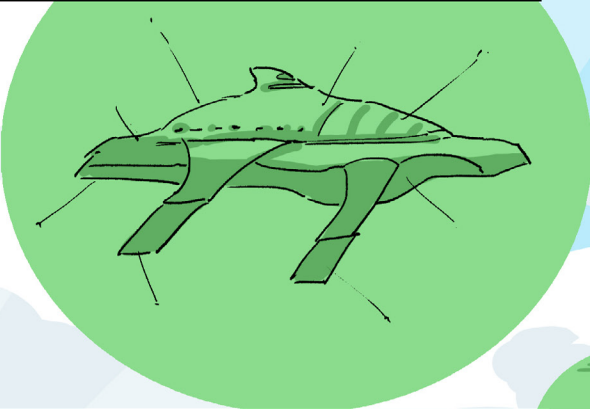
AND THE MAIN MEANS OF
INTER-ISLAND MASS
TRANSIT, THE SEA WEE.

OH,
WOW!

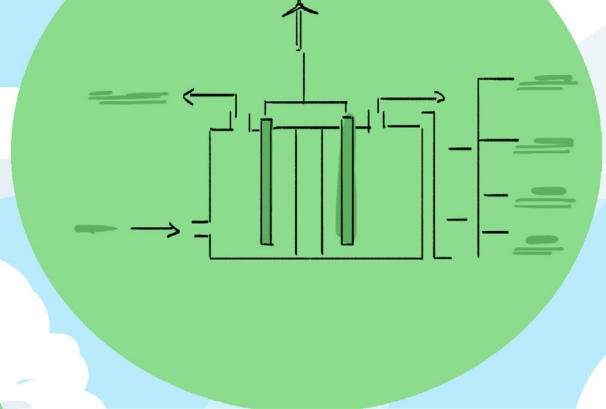




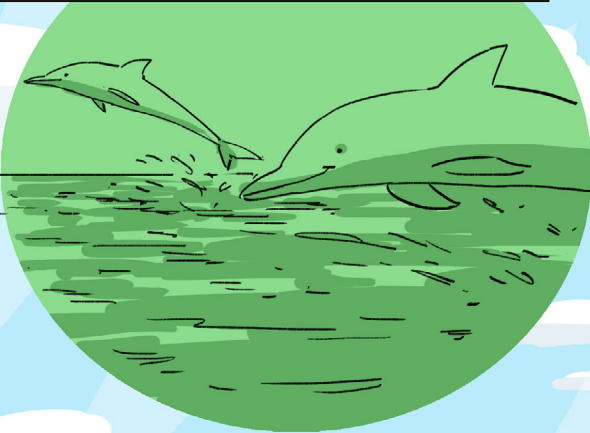
THE SEA WEE IS A GREEN HYDROGEN-POWERED VESSEL DEDICATED TO PROVIDING CONSISTENT, EFFICIENT MASS TRANSIT BETWEEN THE DIVERSE ISLANDS OF THE CARIBBEAN.



INITIATED IN THE EARLY 2020S, THE GREEN CARIBBEAN INITIATIVE INNOVATED A MEANS BY WHICH TO SPLIT WATER INTO HYDROGEN USING THE PROCESS OF ELECTROLYSIS, POWERED BY OUR OWN WATER AND WINDS WITH ZERO ENVIRONMENTAL IMPACT.

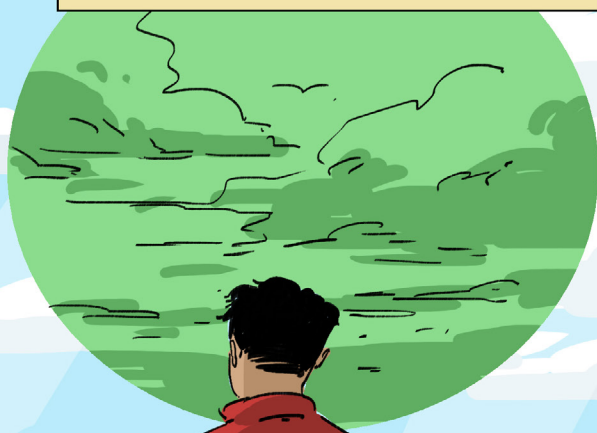


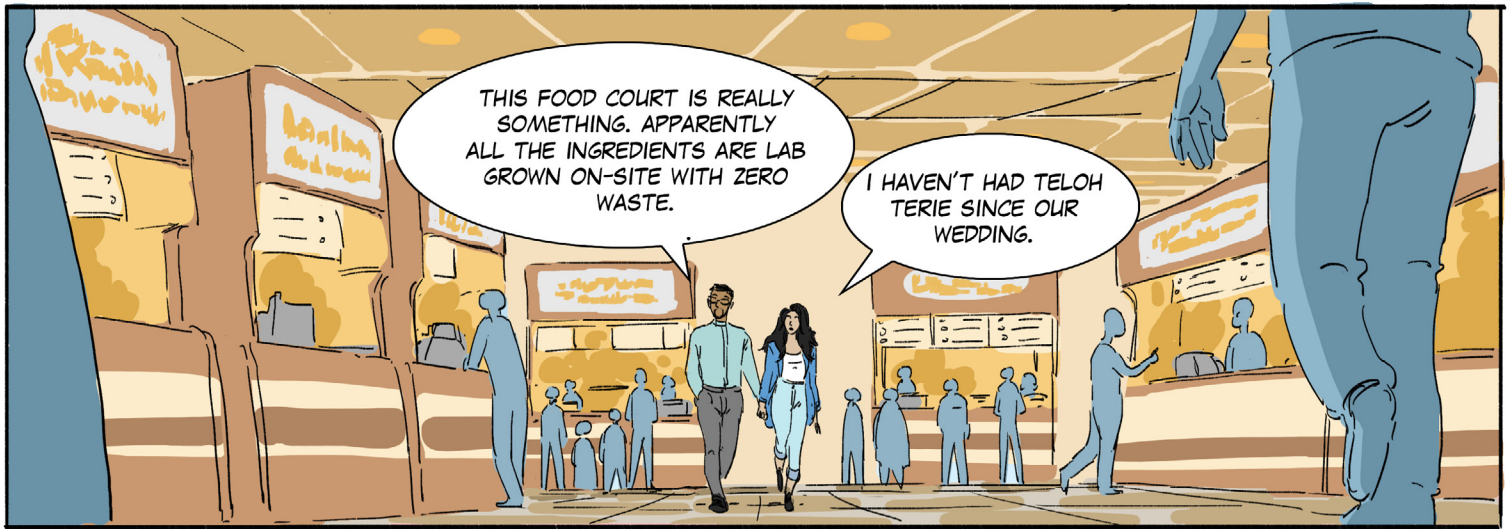
THE SPINNER DOLPHIN, SCIENTIFIC NAME *STENELLA LONGIROSTRIS*, DISPLAYS A UNIQUE ACROBATIC BEHAVIOUR FROM WHICH IT GETS IT'S NAME.



235mph

FORMED BY TINY ICE CRYSTALS IN THE AIR, WHILE CIRRUS CLOUDS MAKE FOR BEAUTIFUL SKIES AND SUNSETS, THEY CAN ALSO SIGNAL IMPENDING STORMS.





THIS FOOD COURT IS REALLY SOMETHING. APPARENTLY ALL THE INGREDIENTS ARE LAB GROWN ON-SITE WITH ZERO WASTE.

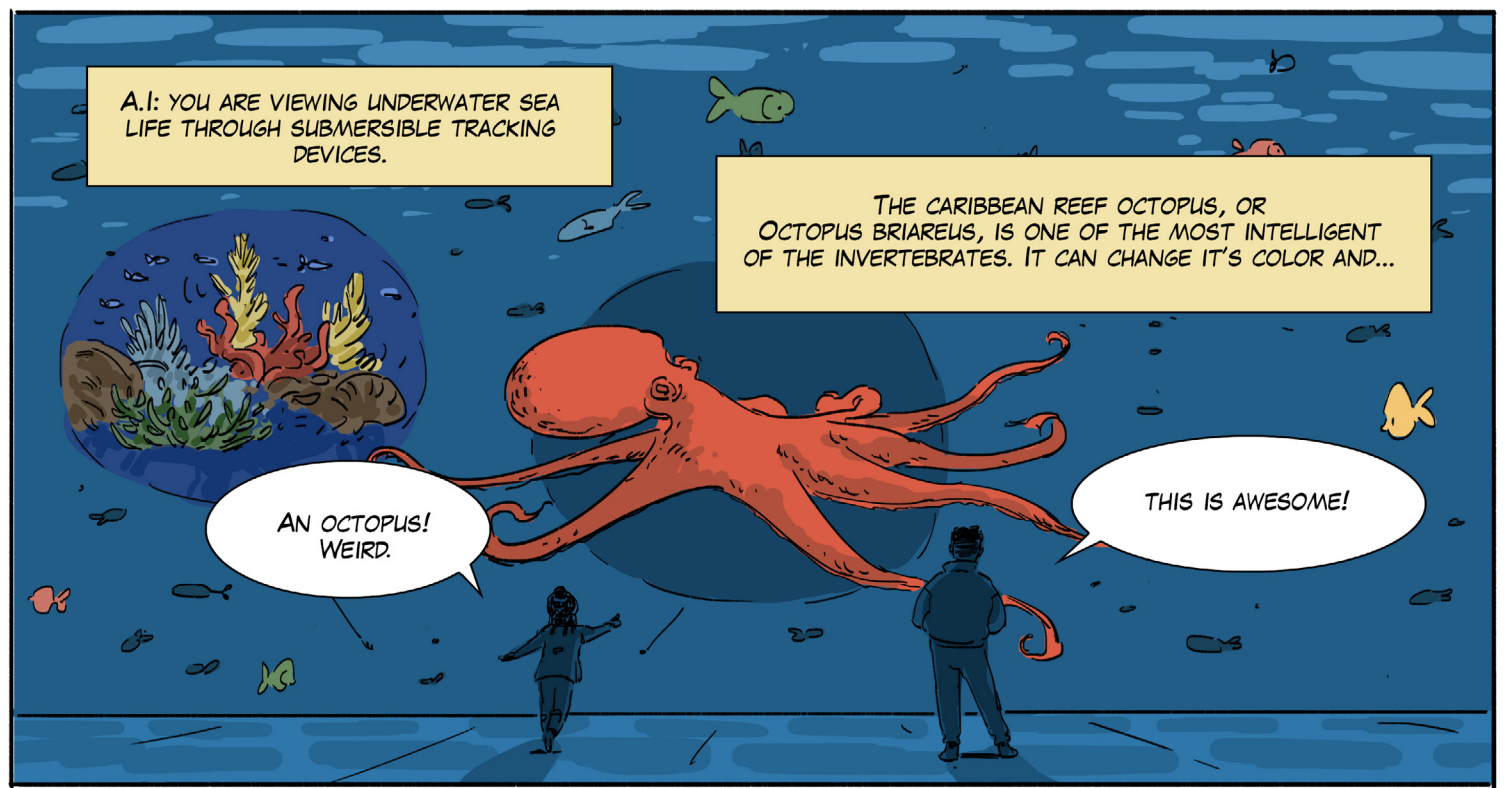
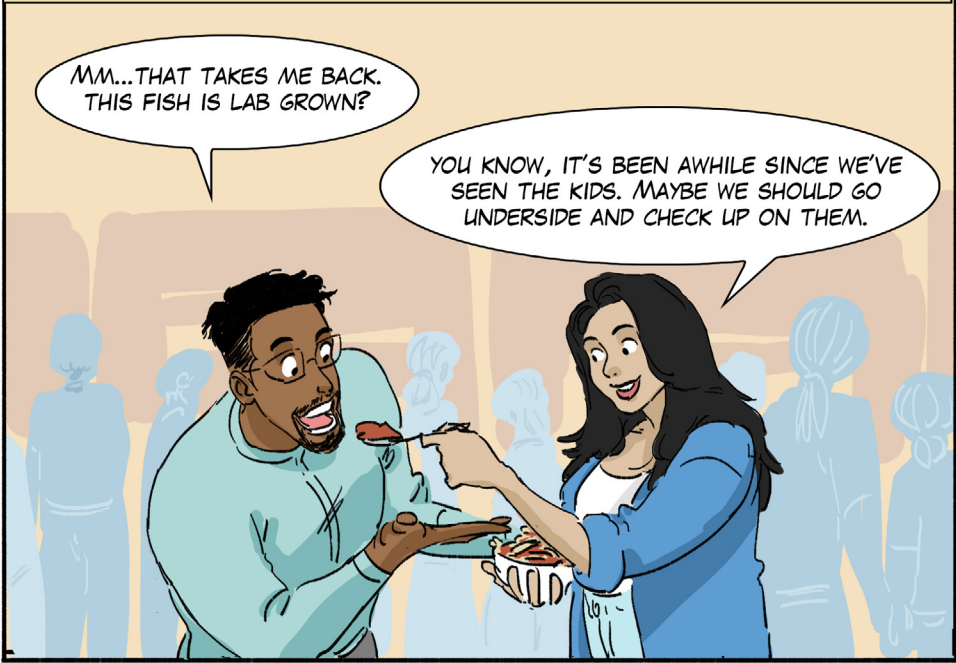
I HAVEN'T HAD TELOH TERIE SINCE OUR WEDDING.



P.A. SYSTEM: PLEASE BRACE YOURSELF AS WE REDUCE SPEED AND PARTIALLY SUBMERGE IN PREPARATION FOR OUR STOP, PORT OF SPAIN, TRINIDAD AND TOBAGO.

MM...THAT TAKES ME BACK. THIS FISH IS LAB GROWN?

YOU KNOW, IT'S BEEN AWHILE SINCE WE'VE SEEN THE KIDS. MAYBE WE SHOULD GO UNDERSIDE AND CHECK UP ON THEM.

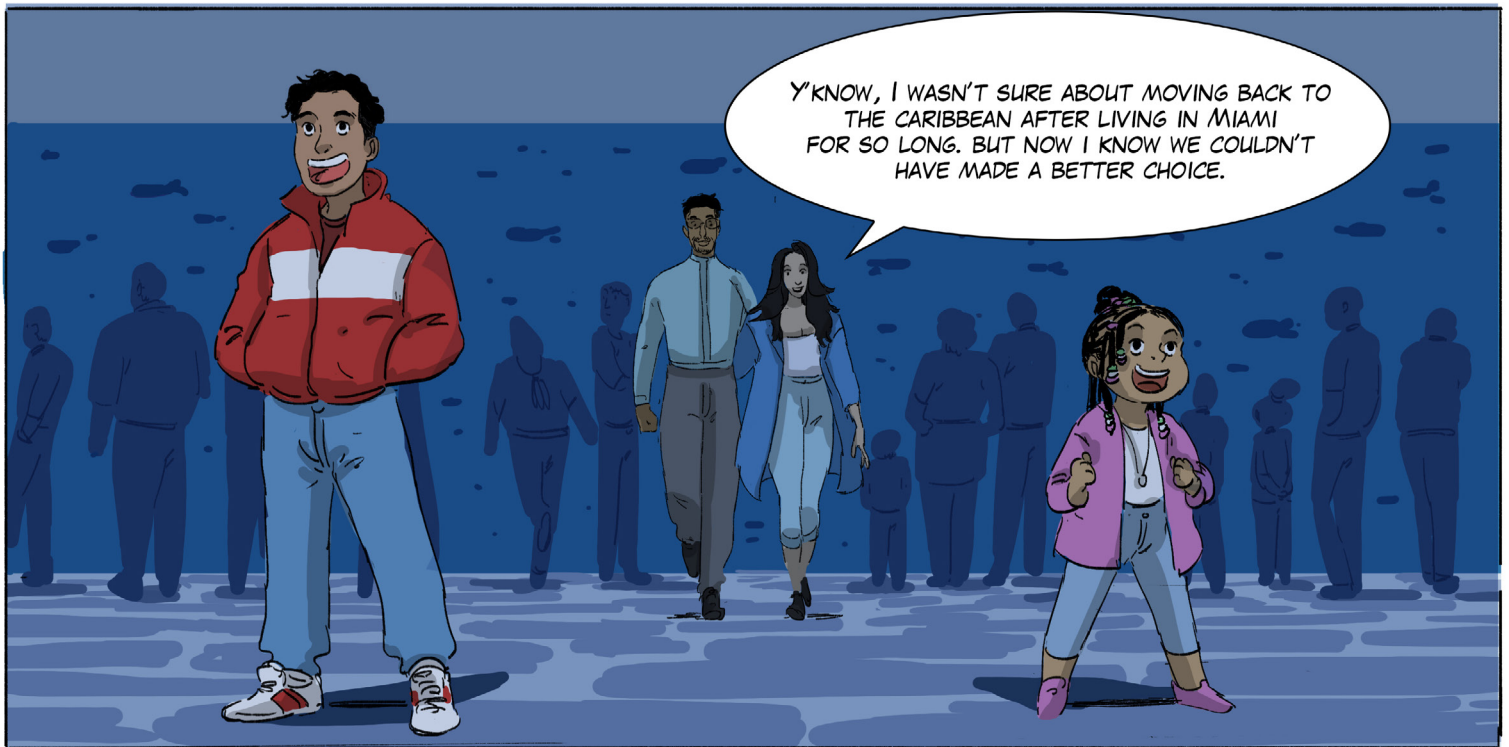


A.I: YOU ARE VIEWING UNDERWATER SEA LIFE THROUGH SUBMERSIBLE TRACKING DEVICES.

THE CARIBBEAN REEF OCTOPUS, OR OCTOPUS BRIAREUS, IS ONE OF THE MOST INTELLIGENT OF THE INVERTEBRATES. IT CAN CHANGE IT'S COLOR AND...

AN OCTOPUS! WEIRD.

THIS IS AWESOME!



CHAPTER 3

MADE IN WATER



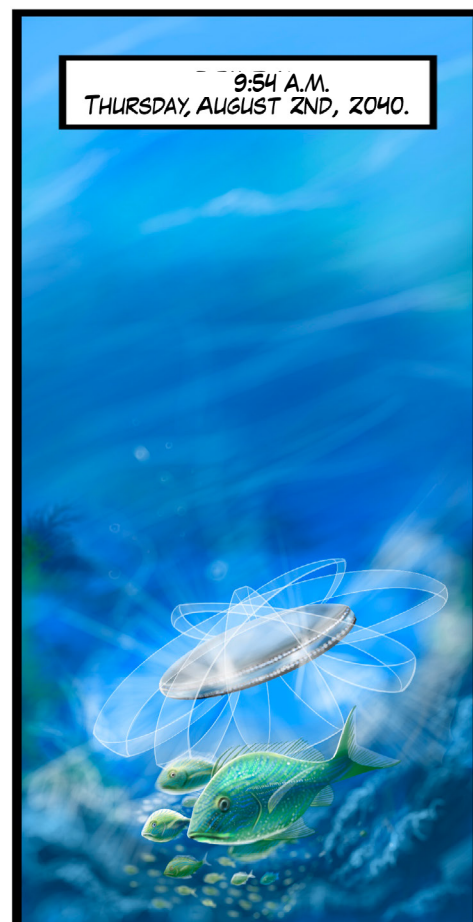
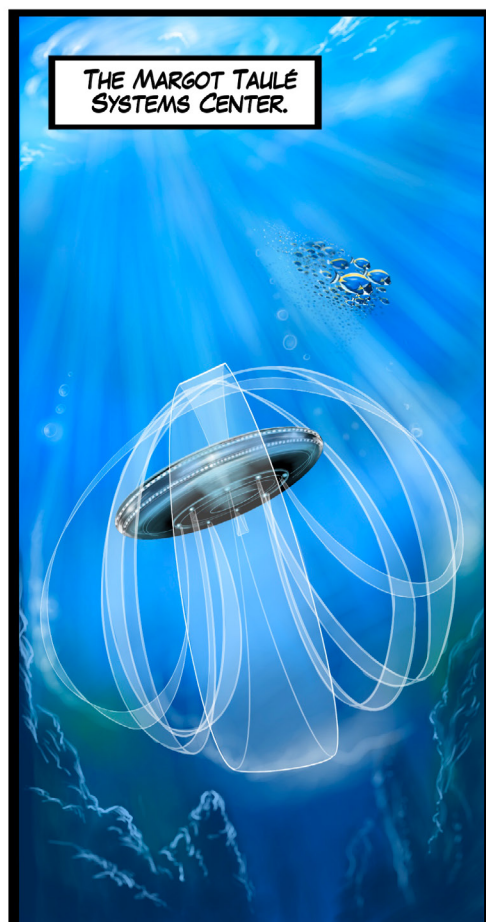
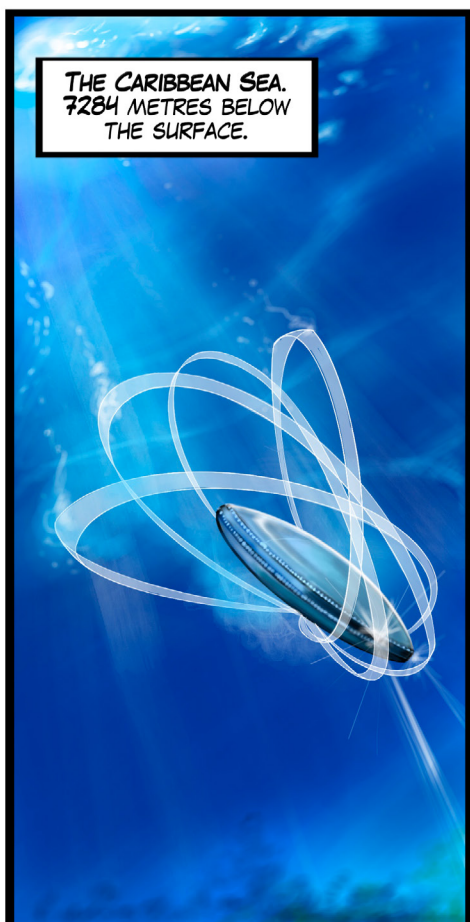
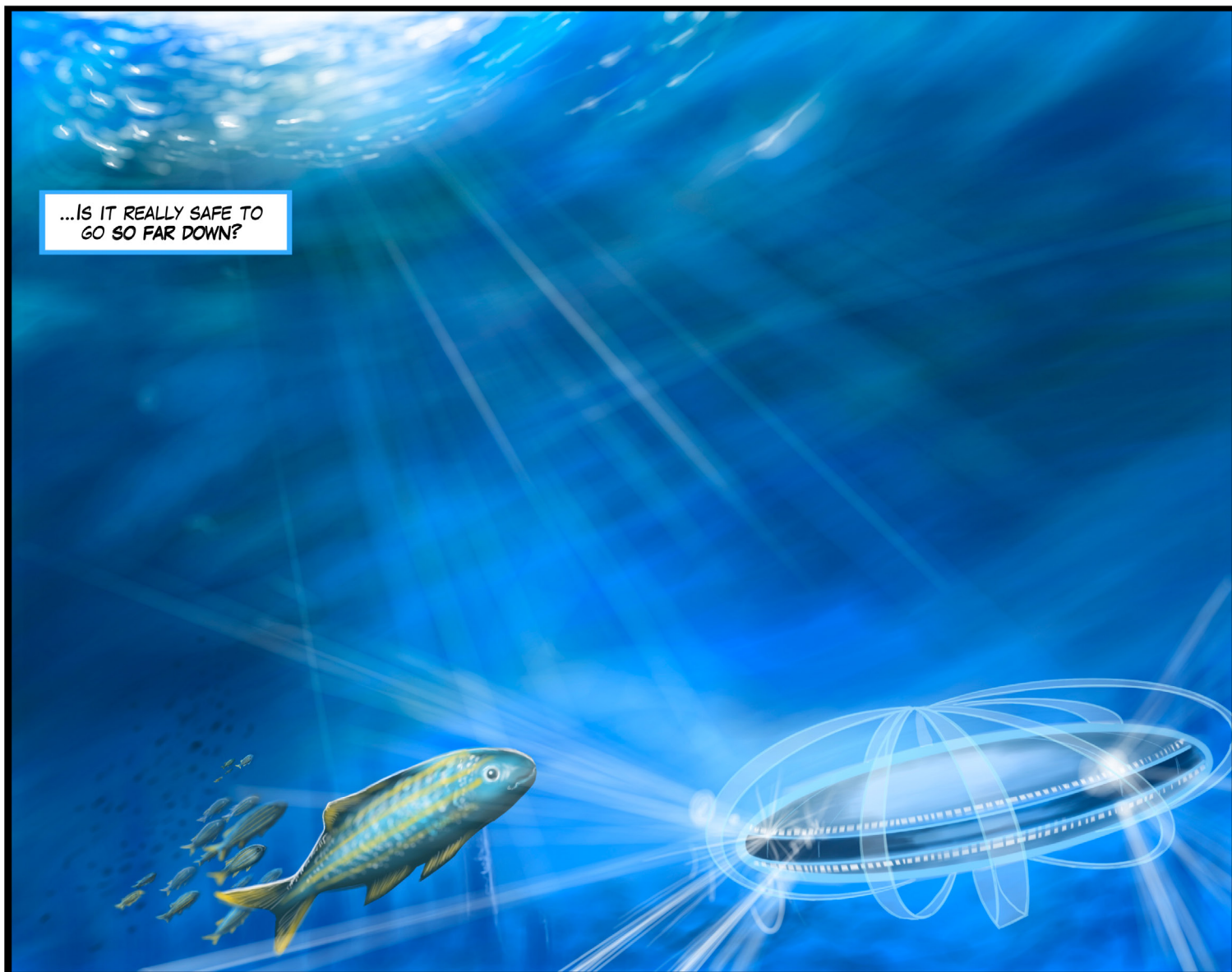
ILLUSTRATOR

Shaun Riaz

THE MOONSHOT CONCEPT

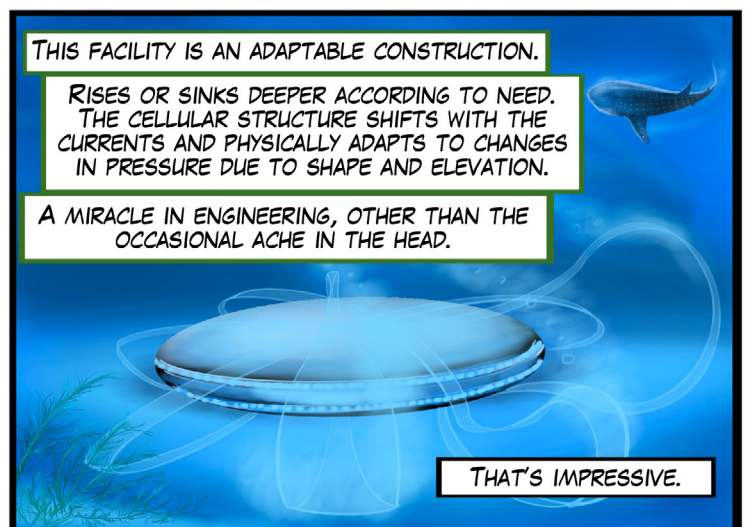
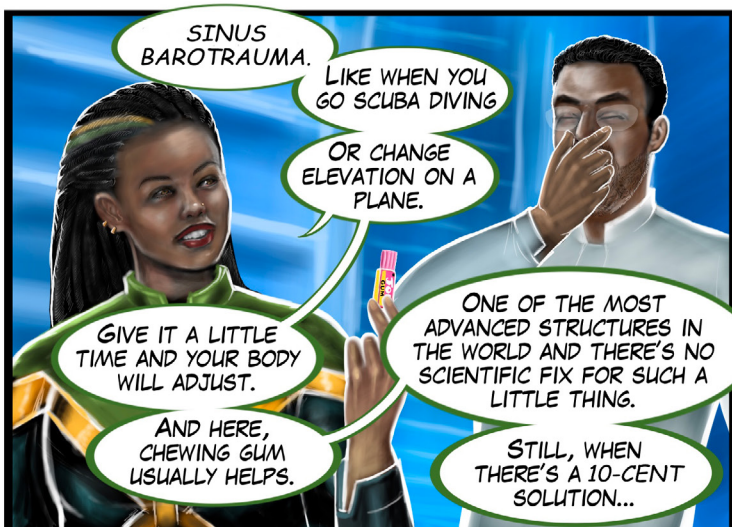
By 2040, structural expansion has placed land resources in the Caribbean in short supply. Due to this, the preceding years saw a trend of underwater facilities beginning to emerge. The development of adaptive, self-assembling architecture opened the door to investment in a new class of practical, self-sustaining underwater facilities.

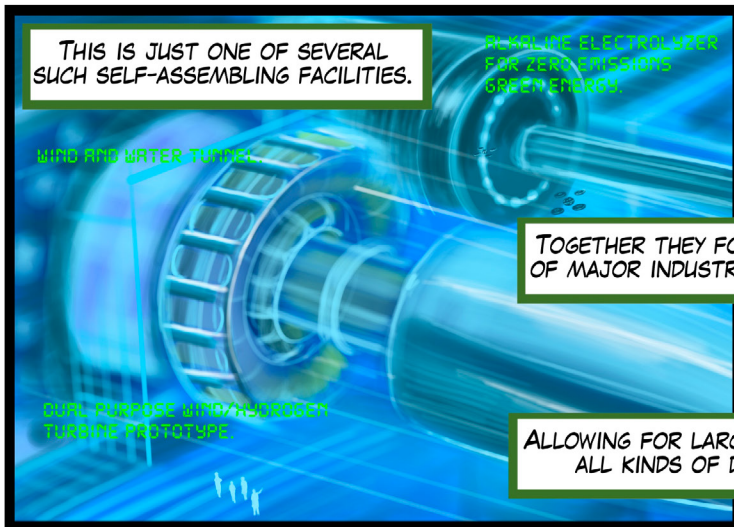
As the most versatile constructions in human history, these structures accommodate environmental conditions by undulating and warping with the underwater currents and adjusting depth by altering internal pressure. They are able to facilitate transfer of passengers and cargo just below sea level. As an added benefit, the surfaces of these underwater facilities are coated with microfragmented coral, creating a small biome that helps contribute to the rehabilitation of marine life.



DEPTH	7451 METRES
PRESSURE	10990 PSI
OXYGEN LEVEL	20.37%
SUBMERSION LEVEL	RESOLVING

DEPTH	7483 METRES
PRESSURE	10904 PSI
OXYGEN LEVEL	21.00%
SUBMERSION LEVEL	COMPLETE





THIS IS JUST ONE OF SEVERAL SUCH SELF-ASSEMBLING FACILITIES.

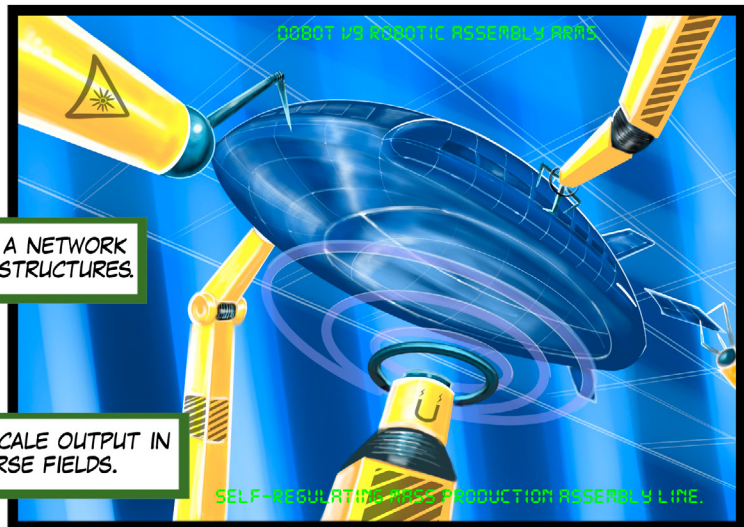
WIND AND WATER TUNNEL.

CIVIL PURPOSE WIND/HYDROGEN TURBINE PROTOTYPE.

AL-KALIFE ELECTROLYZER FOR ZERO EMISSIONS GREEN ENERGY.

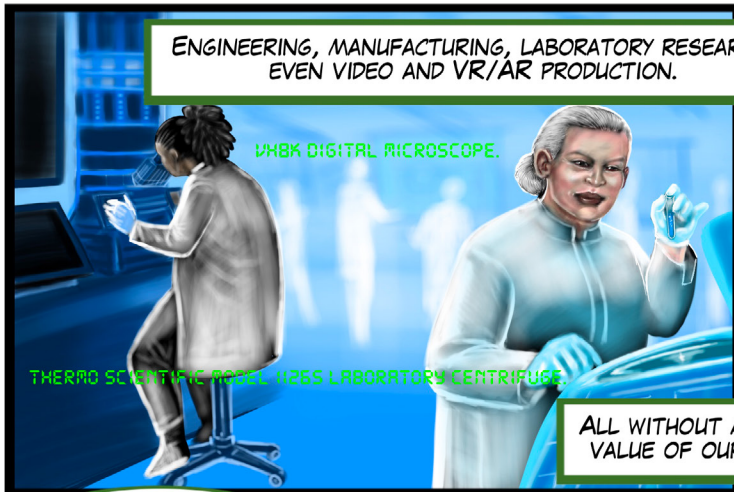
TOGETHER THEY FORM A NETWORK OF MAJOR INDUSTRIAL STRUCTURES.

ALLOWING FOR LARGE-SCALE OUTPUT IN ALL KINDS OF DIVERSE FIELDS.



COBOT VS ROBOTIC ASSEMBLY ARMS.

SELF-REGULATING HIGH PRODUCTION ASSEMBLY LINE.

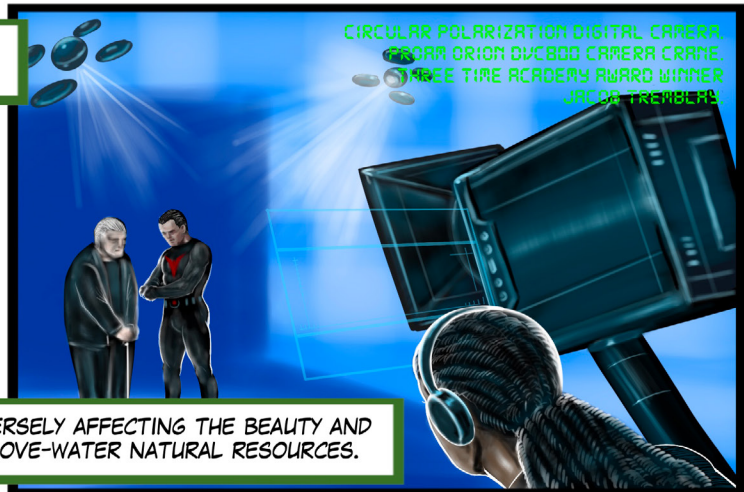


ENGINEERING, MANUFACTURING, LABORATORY RESEARCH, EVEN VIDEO AND VR/AR PRODUCTION.

UHBK DIGITAL MICROSCOPE.

THERMO SCIENTIFIC MODEL 11265 LABORATORY CENTRIFUGE.

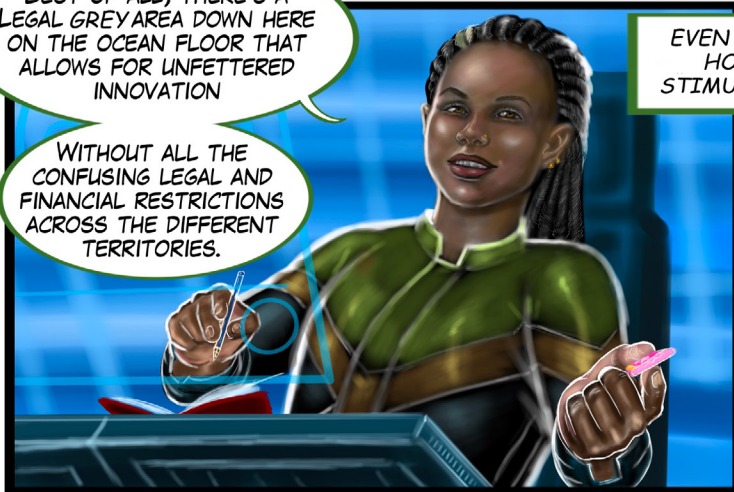
ALL WITHOUT ADVERSELY AFFECTING THE BEAUTY AND VALUE OF OUR ABOVE-WATER NATURAL RESOURCES.



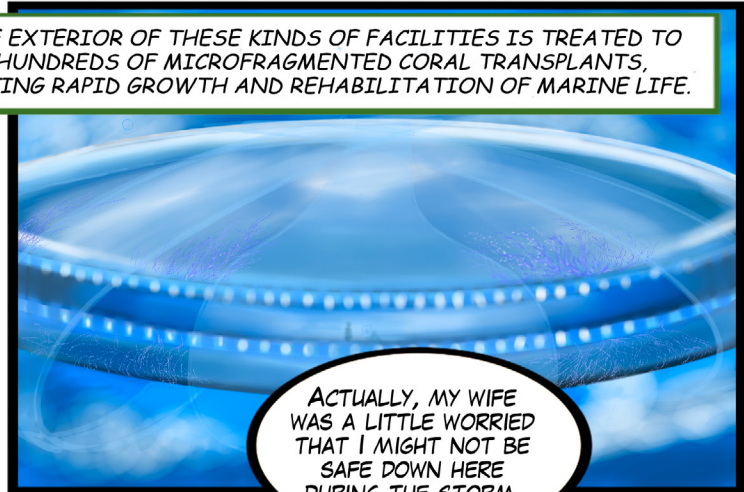
CIRCULAR POLARIZATION DIGITAL CAMERA. FORM ORION DVC800 CAMERA CRANE. THREE TIME ACADEMY AWARD WINNER JACQUE TREMBLAY.

BEST OF ALL, THERE'S A LEGAL GREYAREA DOWN HERE ON THE OCEAN FLOOR THAT ALLOWS FOR UNFETTERED INNOVATION

WITHOUT ALL THE CONFUSING LEGAL AND FINANCIAL RESTRICTIONS ACROSS THE DIFFERENT TERRITORIES.



EVEN THE EXTERIOR OF THESE KINDS OF FACILITIES IS TREATED TO HOST HUNDREDS OF MICROFRAGMENTED CORAL TRANSPLANTS, STIMULATING RAPID GROWTH AND REHABILITATION OF MARINE LIFE.



ACTUALLY, MY WIFE WAS A LITTLE WORRIED THAT I MIGHT NOT BE SAFE DOWN HERE DURING THE STORM.



SOME OF THE FOREIGN INVESTORS SCHEDULED TO TOUR WITH YOU POSTPONED THEIR VISIT BECAUSE OF SIMILAR CONCERNS.

IT'S ACTUALLY JUST THE OPPOSITE. DURING A MAJOR TROPICAL STORM WE'LL BE SAFER DOWN HERE THAN ANYWHERE ELSE IN THE CARIBBEAN.

BESIDES THAT, WE CAN MONITOR EVERYTHING UP ABOVE THE WATER WITH UNPARALLELED DEPTH AND ACCURACY.

REALLY? HOW?

WE'RE STANDING INSIDE THE CENTRAL NERVOUS SYSTEM OF A NEXT-GENERATION SENSORY ARRAY CONTROLLED BY A SOPHISTICATED ARTIFICIAL INTELLIGENCE DESIGNED BY YOURS TRULY.

WANNA SEE?

CHAPTER 4

MANAGER OF INTEGRATED SOCIETAL SYSTEMS IN THE CARIBBEAN (M.I.S.S.C.)



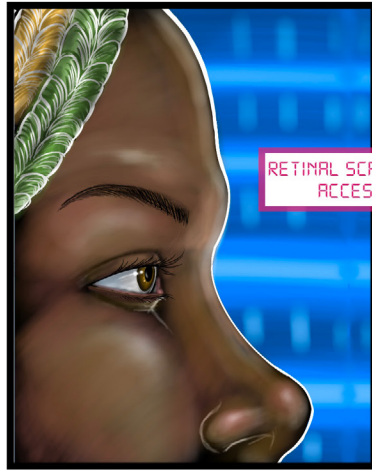
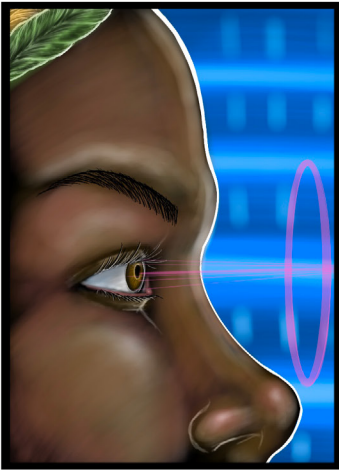
ILLUSTRATOR

Shaun Riaz

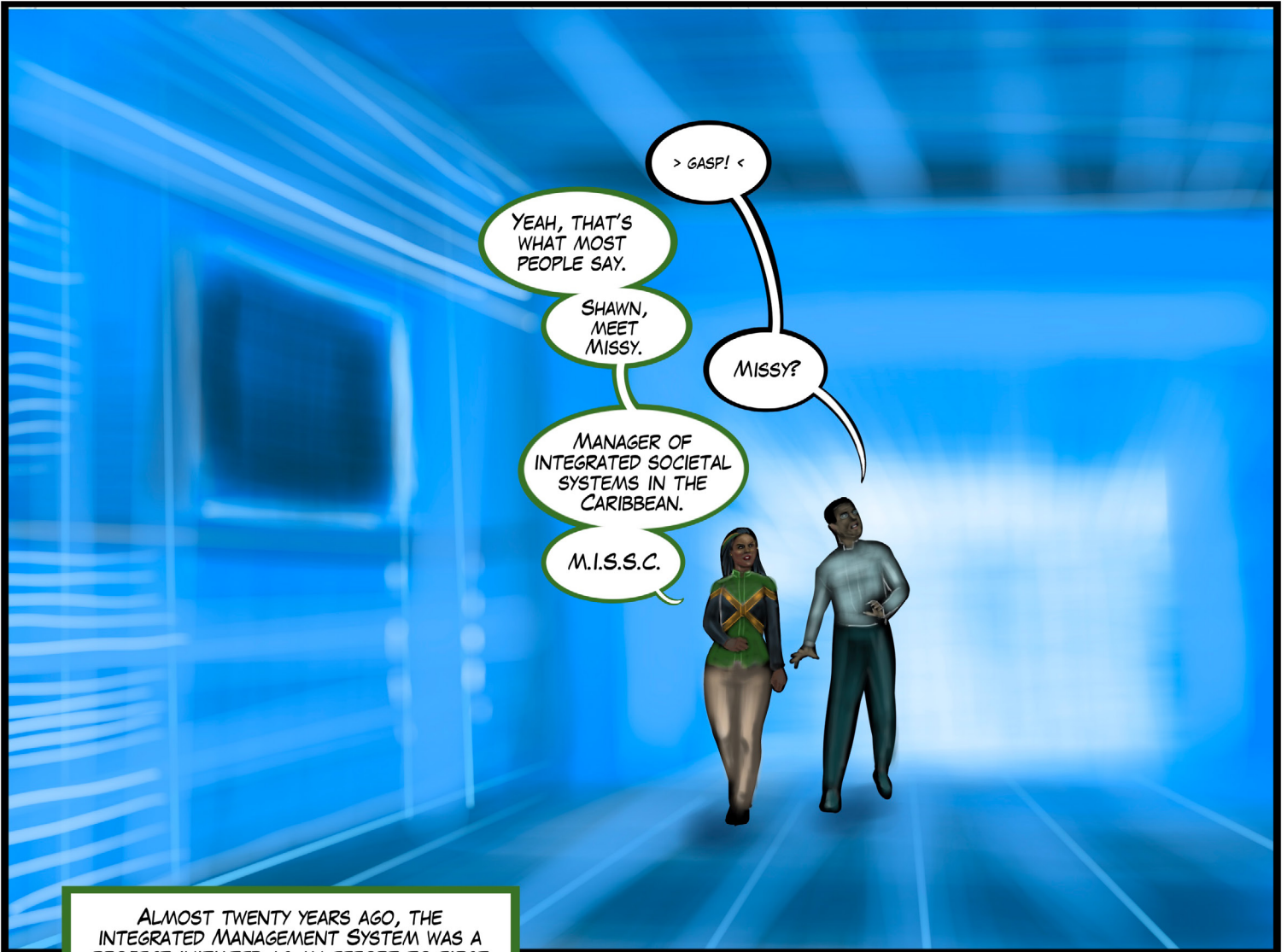
THE MOONSHOT CONCEPT

With a never-ending influx of information from every source imaginable becoming the norm, determining an efficient approach to process such a massive spike in data as fast as it was coming in became a necessity. The Integrated Management System (I.M.S.) was initially envisioned as a panterritorial monitoring service tied to a comprehensive and all-encompassing sensory array across the Caribbean.

I.M.S. was later endowed with a cutting-edge Artificial Intelligence capable of parsing, organizing, and processing all of that data faster and more accurately than any team of humans ever could, becoming the Manager of Integrated Societal Systems in the Caribbean (M.I.S.S.C.). Reducing costs of production and increasing revenues while eliminating food and water poverty, the M.I.S.S.C. would become one of the most important cornerstones to building a better Caribbean for 2040.



RETINAL SCANNER APPROVED.
ACCESS GRANTED.



> GASP! <

YEAH, THAT'S
WHAT MOST
PEOPLE SAY.

SHAWN,
MEET
MISSY.

MISSY?

MANAGER OF
INTEGRATED SOCIETAL
SYSTEMS IN THE
CARIBBEAN.

M.I.S.S.C.

ALMOST TWENTY YEARS AGO, THE
INTEGRATED MANAGEMENT SYSTEM WAS A
PROJECT INITIATED AS AN EFFORT TO FIRST
MONITOR AND FINALLY OPTIMIZE THE
RESOURCES AND PRODUCTIVITY OF EACH OF
THE CARIBBEAN TERRITORIES.



IT WAS A HUMBLE ENDEAVOR
AT FIRST, BUT THE IDEA WAS
TO DETERMINE THE BEST
POSSIBLE VERSION OF THE
CARIBBEAN BASED ON THE
INDIVIDUAL NEEDS OF EVERY
CITIZEN IN EVERY TERRITORY
WITHOUT BECOMING
PERSONALLY INVASIVE OR
POLITICALLY INTRUSIVE...

TAKING ADVANTAGE OF THE DATA COLLECTION CAPABILITIES GRANTED BY THE INTERNET OF THINGS (IOT), WHICH WERE PERVERSIVE EVEN THEN, THE PROJECT DESIGNED AND EMBEDDED FEEDBACK SYSTEMS ACROSS THE TERRITORIES, INTEGRATING THEM EVERYWHERE ANYONE WOULD LET THEM...

DRONES...

SUBMERSIBLES...

PERSONAL TECHNOLOGY...

WATER AND AIRCRAFT...

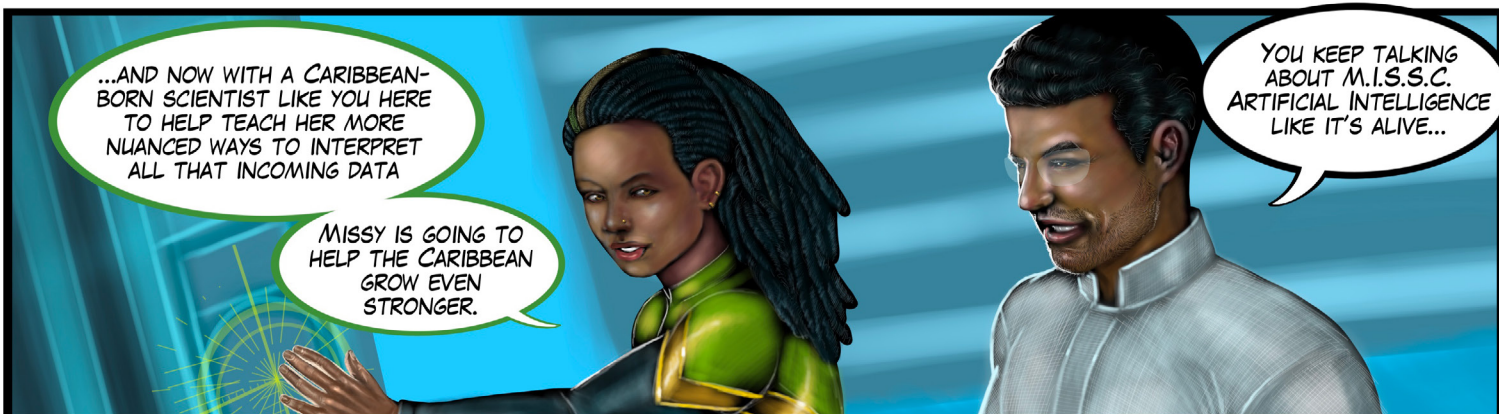
...NOT TO MENTION
INSTALLING INDEPENDENT
MONITORING EQUIPMENT
ANYWHERE THEY COULD
IMAGINE.

THE ENTIRE ENDEAVOR TOOK ALMOST A DECADE, CREATING AN INFLUX OF INVESTMENT, RESEARCH AND EMPLOYMENT OPPORTUNITIES IN AND OF ITSELF, CONTRIBUTING TO THE UNPRECEDENTED ECONOMIC AND SCIENTIFIC DEVELOPMENT THE CARIBBEAN ENJOYED EVEN BEFORE ANY OF THE OPTIMIZATION COULD BEGIN.

THE UNIFIED GROUP EFFORT OF IMPLEMENTING SUCH A COMPREHENSIVE SENSORY ARRAY ACROSS THE TERRITORIES, ALONG WITH ALL THE DATA THE PROJECT WAS BEGINNING TO CULL FROM THE SENSORS THEMSELVES, LED TO A HARMONIOUS UNDERSTANDING OF OUR SHARED ECOLOGY AND ITS RELATIONSHIP TO ECONOMY AND CULTURE.



WITH THE HELP OF MY MISSY, INTRODUCED INTO THE INTEGRATED SYSTEM JUST A FEW YEARS BACK, OUR UNDERSTANDING OF THE CARIBBEAN IS NOW SO FINE-TUNED THAT IT'S POSSIBLE TO TRACK THE CASCADING IMPACT ON EVEN MINOR ECOLOGICAL OR SOCIETAL OCCURRENCES...



...AND NOW WITH A CARIBBEAN-BORN SCIENTIST LIKE YOU HERE TO HELP TEACH HER MORE NUANCED WAYS TO INTERPRET ALL THAT INCOMING DATA

MISSY IS GOING TO HELP THE CARIBBEAN GROW EVEN STRONGER.

YOU KEEP TALKING ABOUT M.I.S.S.C. ARTIFICIAL INTELLIGENCE LIKE IT'S ALIVE...



"IT" IS A SPRAWLING A.I. THAT CAN MONITOR THE MICROSECOND-TO-MICROSECOND PROGRESSION OF EVERYTHING THAT HAPPENS FOR OVER A MILLION SQUARE KILOMETERS

SUGGESTING MILLIONS OF MINUTE ADJUSTMENTS TO PRICING, RESOURCE ALLOCATION, PERSONNEL, AND SYSTEMS MANAGEMENT, ENSURING THE INDIVIDUAL NEEDS OF EVERYONE AND EVERYTHING UP ABOVE ARE ADDRESSED TO THE EXTENT THAT ALL OF THE CARIBBEAN CAN LIVE AND THRIVE WITH A MINIMUM OF WASTED RESOURCES AND ENERGY.

SO, FROM MY POINT OF VIEW, YES, SHE'S MORE ALIVE THAN ANY OF US.



BUT MISSY IS STILL LEARNING SOME PEOPLE SKILLS.

I HAVE TO ADMIT

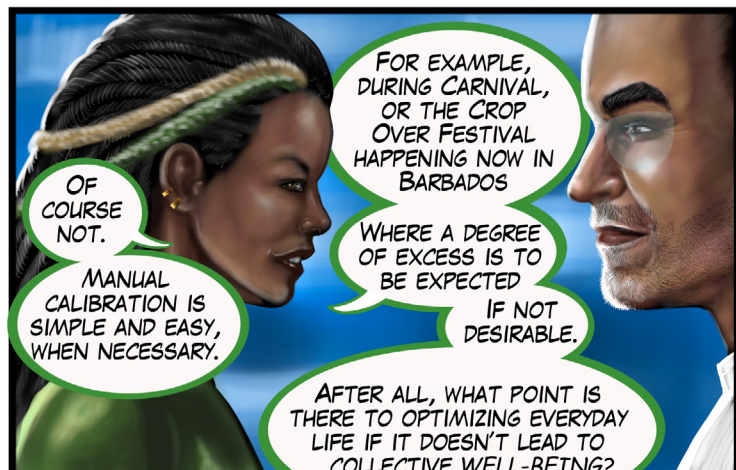
THAT'S NOT EXACTLY MY STRONG SUIT EITHER.

I HADN'T NOTICED...

SO...

SHE...

IS COMPLETELY AUTONOMOUS?



FOR EXAMPLE, DURING CARNIVAL, OR THE CROP OVER FESTIVAL HAPPENING NOW IN BARBADOS

OF COURSE NOT.

MANUAL CALIBRATION IS SIMPLE AND EASY, WHEN NECESSARY.

WHERE A DEGREE OF EXCESS IS TO BE EXPECTED

IF NOT DESIRABLE.

AFTER ALL, WHAT POINT IS THERE TO OPTIMIZING EVERYDAY LIFE IF IT DOESN'T LEAD TO COLLECTIVE WELL-BEING?

CHAPTER 5

BLURRED REALITY, VIRTUAL CLARITY



ILLUSTRATOR

Rajendra Ramkallawan

THE MOONSHOT CONCEPT

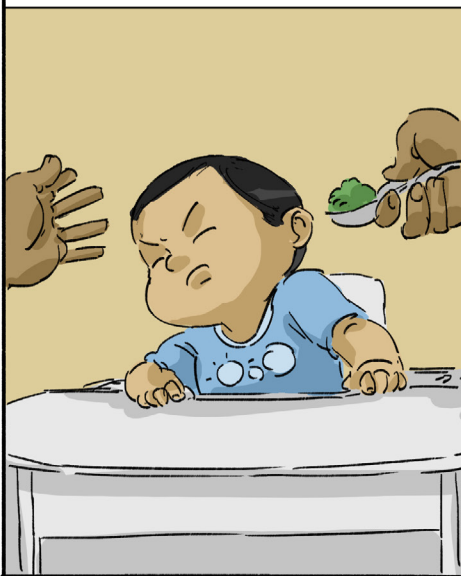
In the years running up to 2040, the need to streamline resource management and economic opportunities in proportion to the size of an ever-expanding Caribbean population became vital. The key to successfully unifying the Caribbean was predicting how much water, food, and specialized training would best serve each territory and when.

Fortunately, blockchain technology allowed for the secure cultivation of a sufficient mass of data to create a Digital Twin for nearly every citizen in the region, essentially creating a virtual version of the Caribbean. Using that ‘virtual Caribbean’ to model scenarios at any scale allows for the extrapolation of outcomes years in the future as well as an intricate analysis of individuals during a specific moment. The applications are limitless, from law enforcement trends to predictive healthcare to ecological preservation. Most beneficially, recommending major life choices for individual Caribbean people such as education and occupational specialization can serve the interests of both the individual and the many.

FROM THE BEGINNING OF THEIR LIVES, EVERY CITIZEN OF THE CARIBBEAN'S BEHAVIOURS, CHOICES AND NEEDS MAY BE ENTERED INTO THE INTERGRATED SYSTEM.



COMBINED WITH FAMILY HISTORY AND GENETIC PROFILING, THIS DATA CAN BE USED TO PREDICT THE MEDICAL FUTURE OF EVERY INDIVIDUAL, DETERMINING AN OPTIMAL LIFESTYLE.



THESE DIGITAL PROFILES CONSTANTLY CROSS REFERENCE TO GUIDE OUR CITIZENS TOWARDS EDUCATION AND CAREER CHOICES THAT BEST SUIT THEM AND THE CARIBBEAN AS A WHOLE.



THANKS TO BLOCKCHAIN TECHNOLOGY, THIS INFORMATION REMAINS PRIVATE, BUT AS A WHOLE IT CREATES A DIGITAL TWIN OF EVERY INDIVIDUAL IN THE SYSTEM.



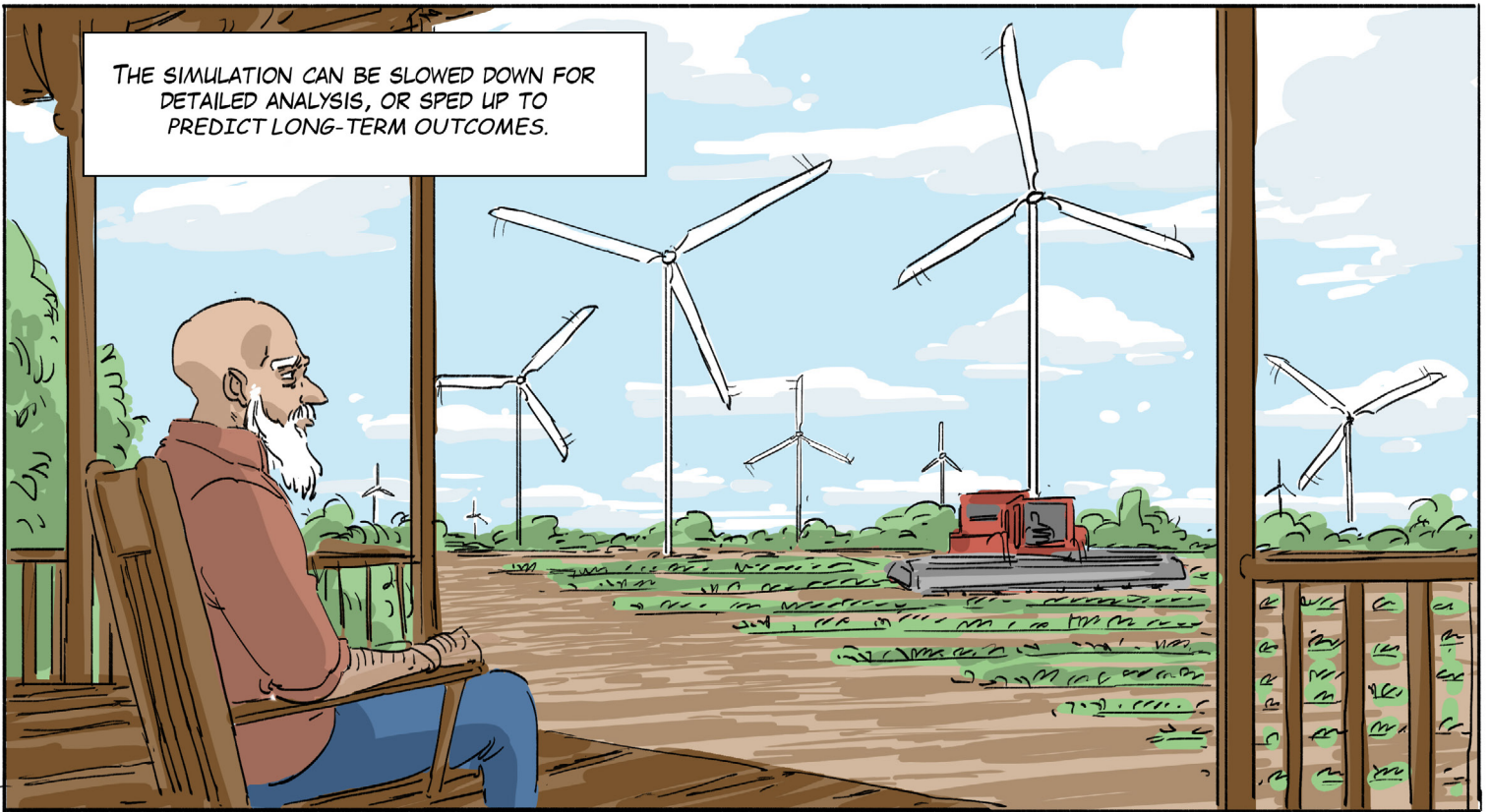
BY CONSTRUCTING A VIRTUAL CARIBBEAN MADE UP OF THESE TWINS, WE TRACK HOW OUR SOCIETY FUNCTIONS AS A WHOLE.



PREDICTING THE NEEDS OF DIFFERENT COMMUNITIES TO MANAGE WATER RESOURCES AND FACILITATE TRADE VIA UNIVERSAL DIGITAL CURRENCY.



THE SIMULATION CAN BE SLOWED DOWN FOR DETAILED ANALYSIS, OR SPED UP TO PREDICT LONG-TERM OUTCOMES.



ANTICIPATING FUTURE TRENDS TO ENSURE A PROSPEROUS LIFE FOR EVERYONE IN THE CARIBBEAN.





WE CAN ALSO RECREATE OUR NATURAL BEAUTY AND CULTURE TO BE EXPERIENCED VIRTUALLY FROM ANYWHERE IN THE WORLD,

NOT THAT ANYTHING CAN REPLACE FIRST-HAND EXPERIENCE.

INSTEAD OF TOURISTS FOREGOING TRUE TRAVEL FOR ITS DIGITAL SUBSTITUTE, VIRTUAL TOURISM HAS LED TO AN UPTICK OF IN PERSON VISITS.



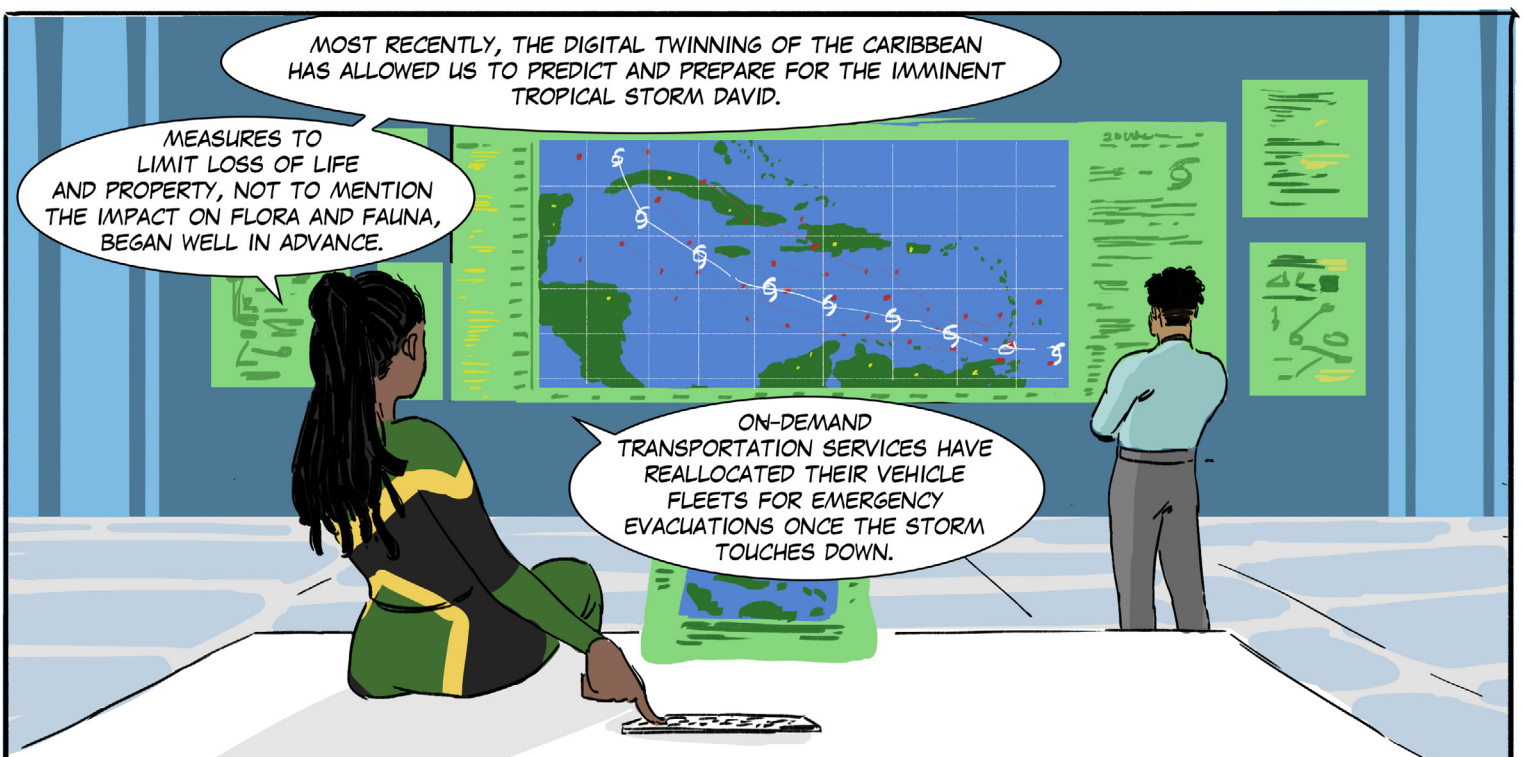
SHARING THE EXPERIENCE OF THE REGION HAS LED TO SIGNIFICANT SOCIAL AND POLITICAL DEVELOPMENT BOTH BETWEEN THE TERRITORIES AND INTERNATIONALLY. THE CARIBBEAN HAS BECOME A LEADING LIGHT WHILE FEELING LIKE A SECOND HOME TO PEOPLE ALL OVER THE WORLD.



MOST RECENTLY, THE DIGITAL TWINNING OF THE CARIBBEAN HAS ALLOWED US TO PREDICT AND PREPARE FOR THE IMMINENT TROPICAL STORM DAVID.

MEASURES TO LIMIT LOSS OF LIFE AND PROPERTY, NOT TO MENTION THE IMPACT ON FLORA AND FAUNA, BEGAN WELL IN ADVANCE.

ON-DEMAND TRANSPORTATION SERVICES HAVE REALLOCATED THEIR VEHICLE FLEETS FOR EMERGENCY EVACUATIONS ONCE THE STORM TOUCHES DOWN.



CHAPTER 6

FLYING FISH



ILLUSTRATOR

Everard McBain

THE MOONSHOT CONCEPT

Intended to serve more disconnected communities across the Caribbean, the Flying Fish fleet is an affordable, self-piloting mode of on-demand transport, requested through a mobile app interface. The Flying Fish is able to travel over land and water, and therefore does not require the traditional infrastructure necessary for most private vehicles.

A single Flying Fish can generally sustain its power supply using green hydrogen electrolysis with the wind and water collected during operation. Occasionally, a Flying Fish might recharge itself in one of many “ponds” constructed across the Caribbean specifically for that purpose. Subscribers can be certified online to manually pilot the vehicles if necessary, though this is generally a measure to be used only during emergencies.

Flying Fish are capable of transporting a family-sized group ranging between eight to twelve people by linking up to four units together or traveling individually with four passengers. The only byproduct of the green hydrogen energy-powered Flying Fish is potable water. This helps the Flying Fish also serve as a mobile storm shelter that safely shields passengers with its transparent dome that redirects heavy wind and pounding water.

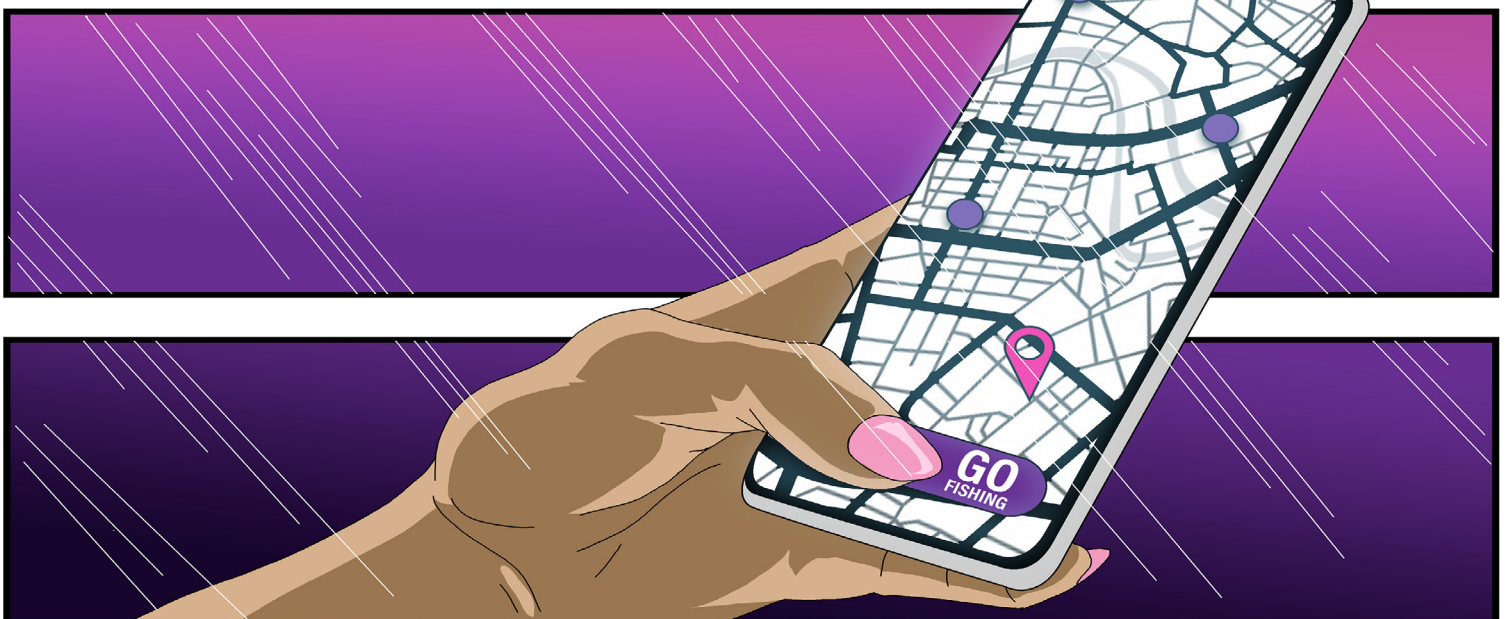
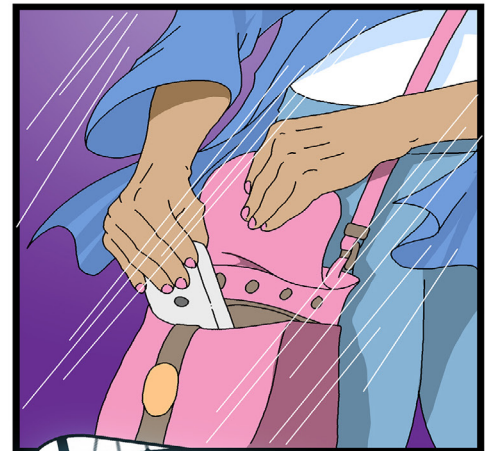
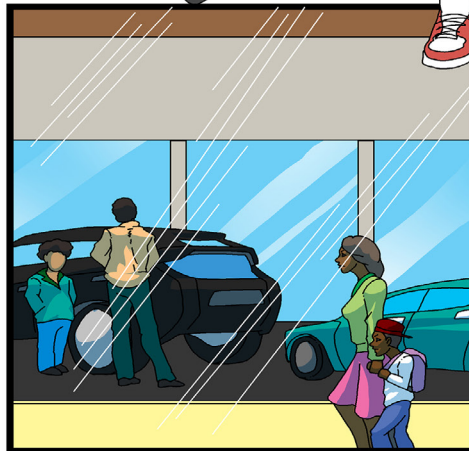
NEWBURY, ST. GEORGE, BARBADOS.

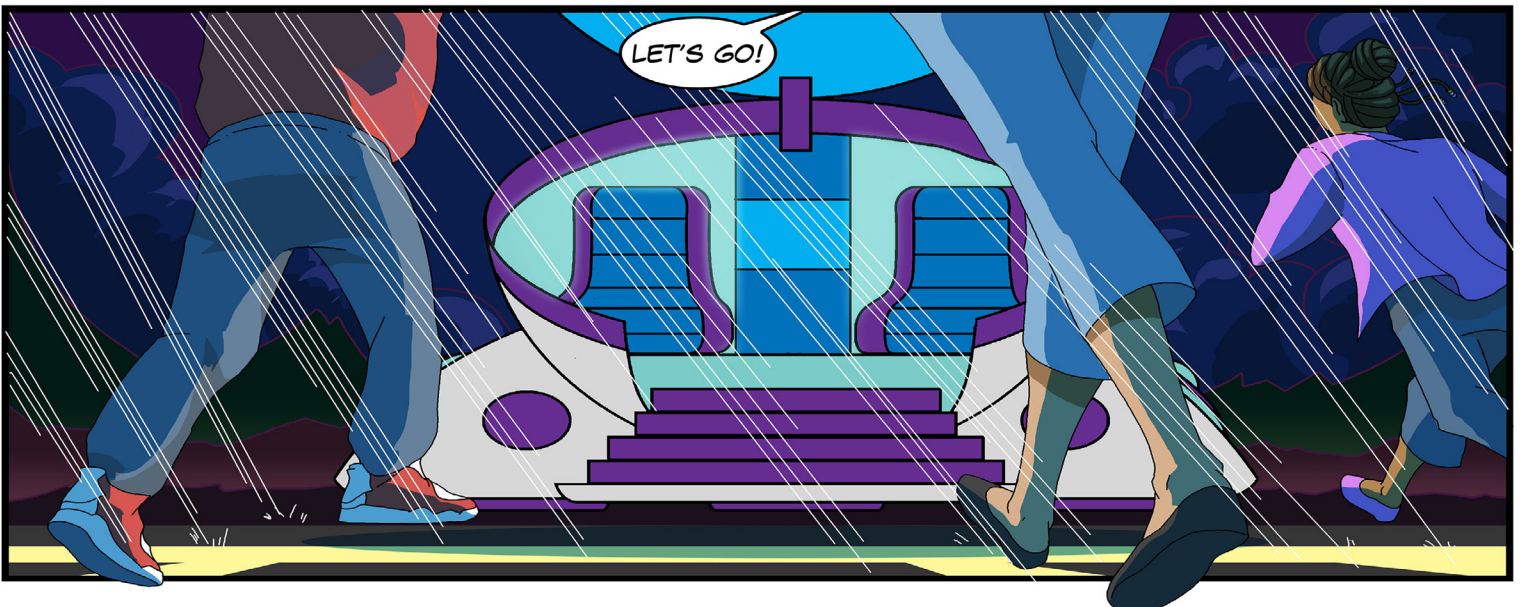
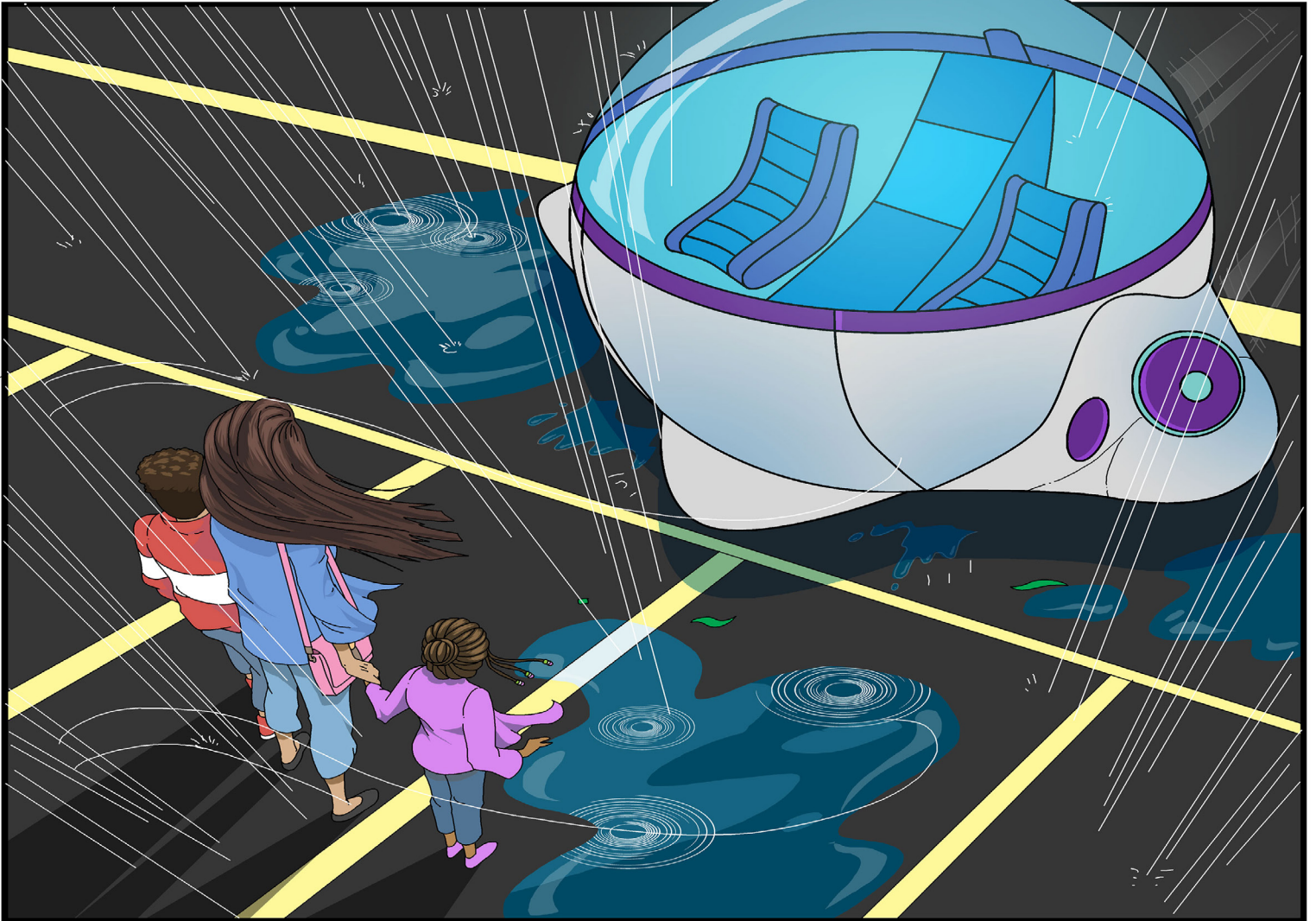
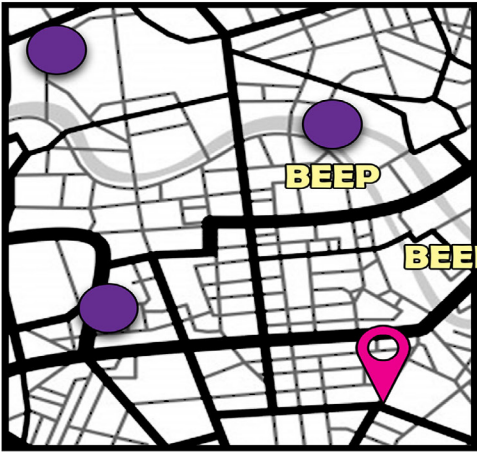
THERE'S A BAD
STORM COMING,
SWEETIE. WE ALL
JUST WANT TO
BE SAFE.

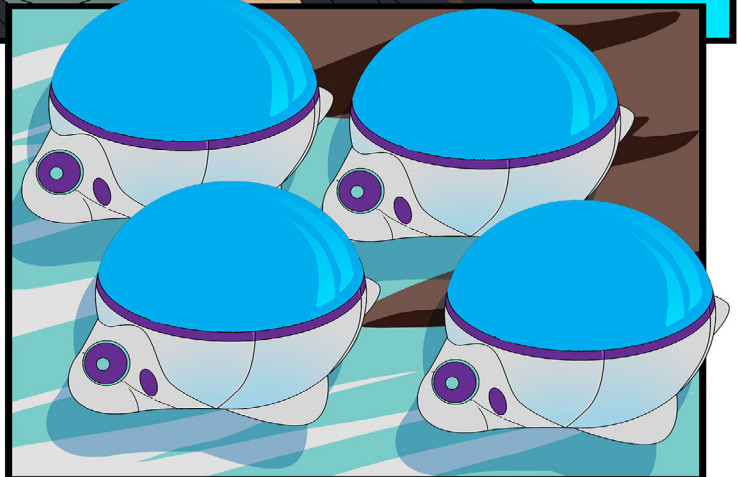
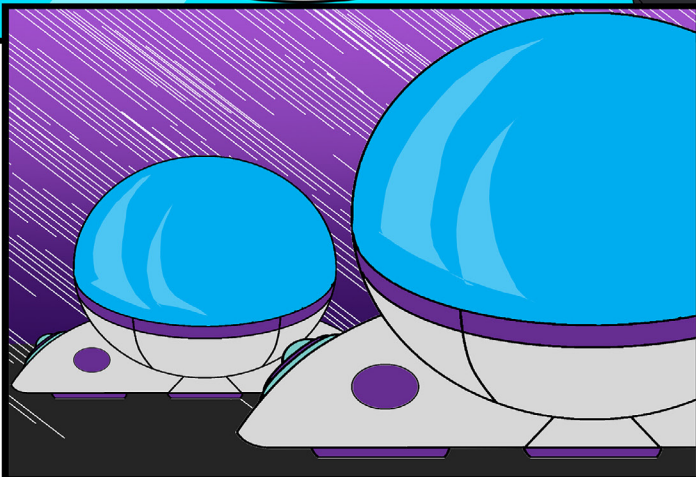
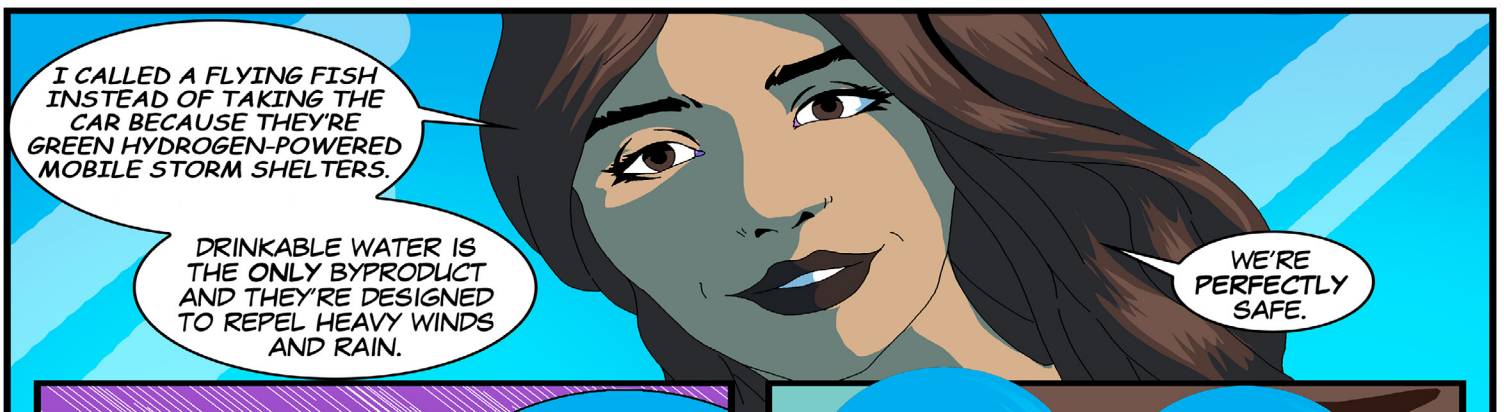
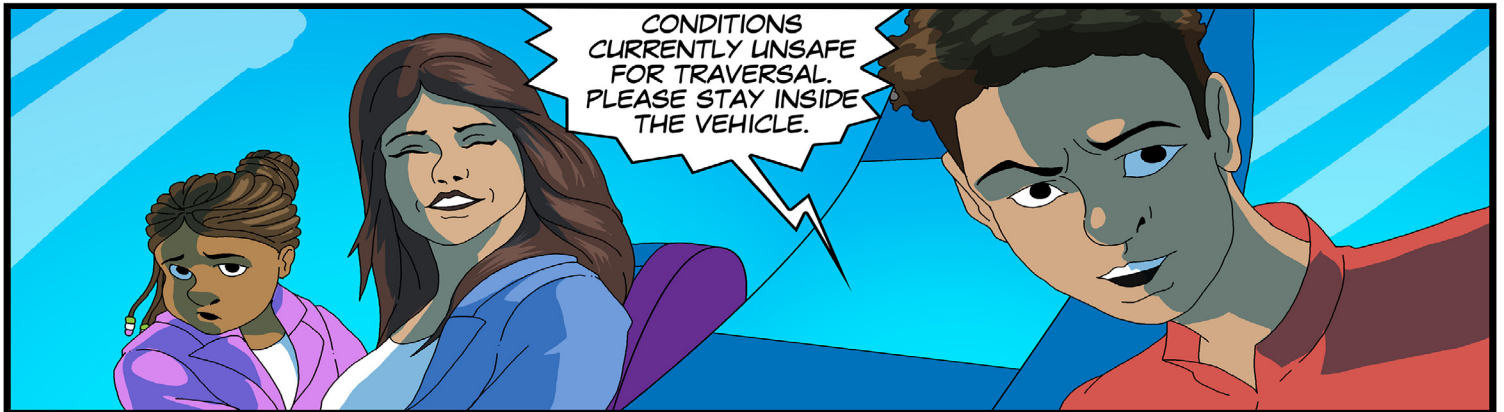
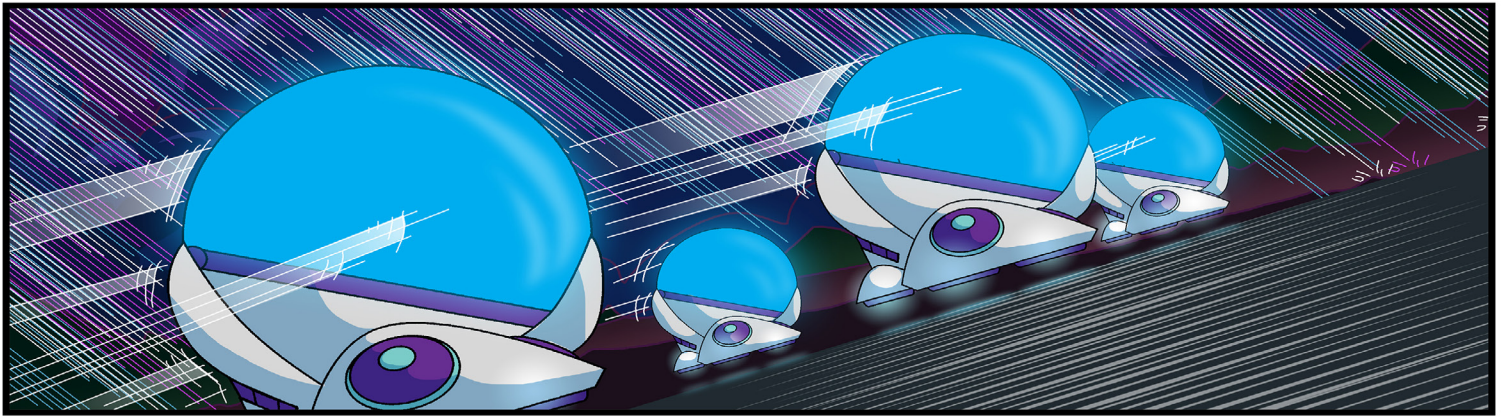
MELNYK PRIMARY SCHOOL PICK-UP CIRCLE.

WHY ARE
PARENTS
PULLING THEM
OUT OF SCHOOL?

1:37 P.M. THURSDAY, AUGUST 2ND, 2040.







CHAPTER 7

AMBASSADORS OF ABUNDANCE



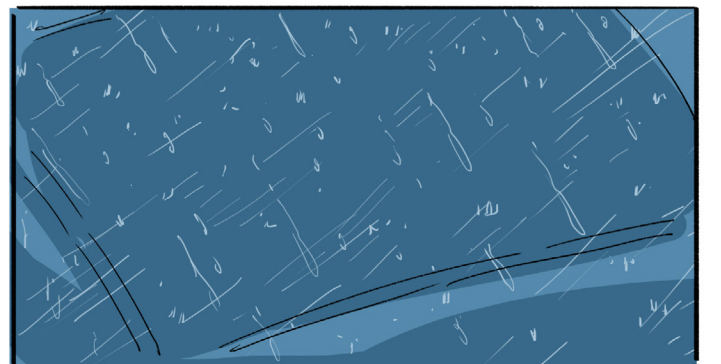
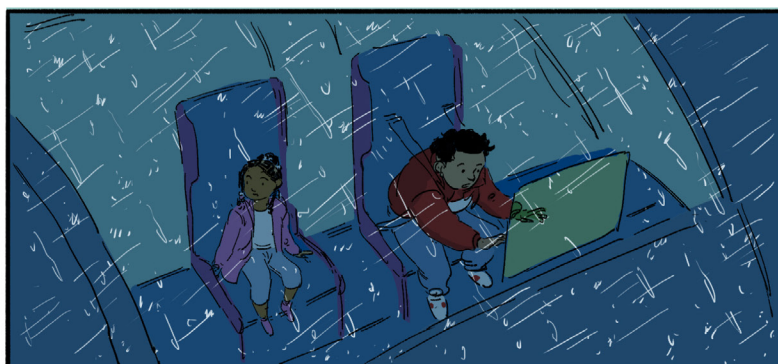
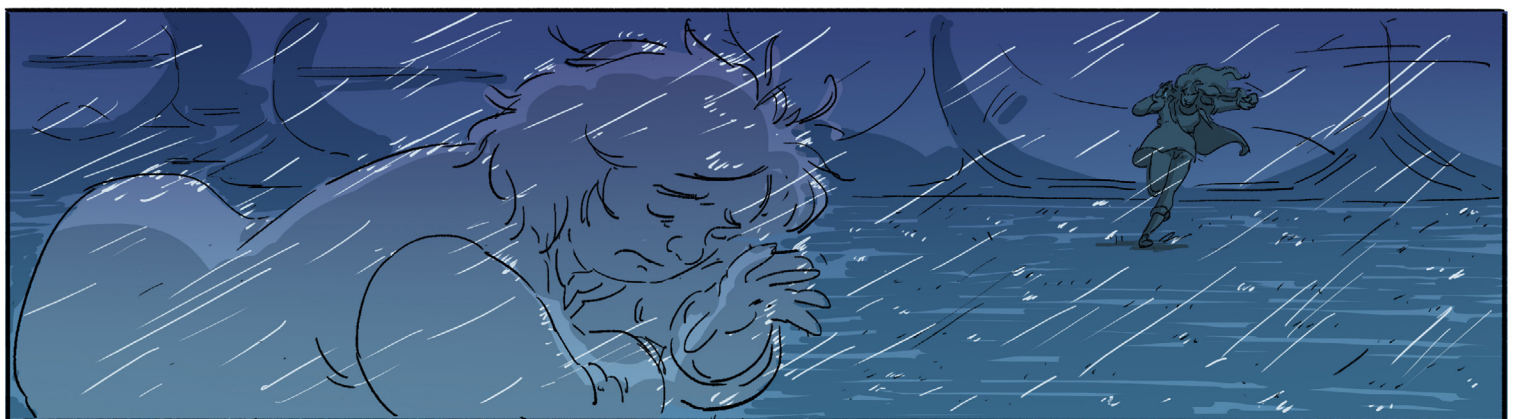
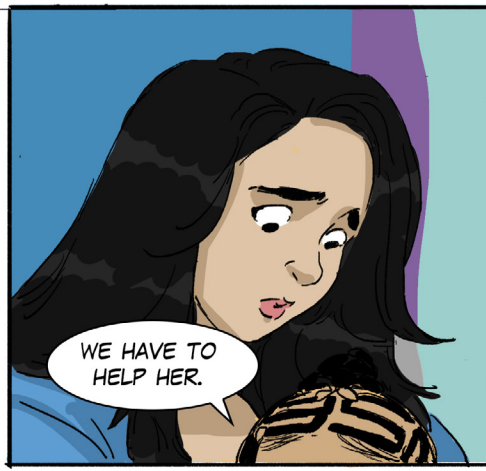
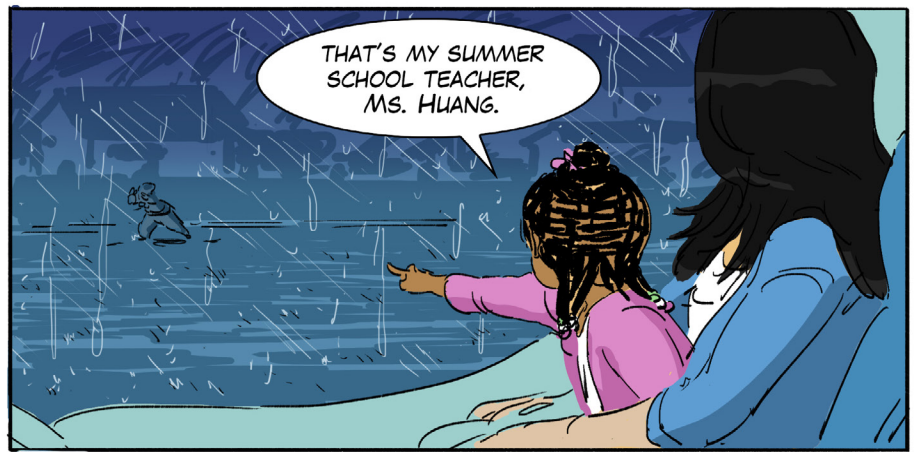
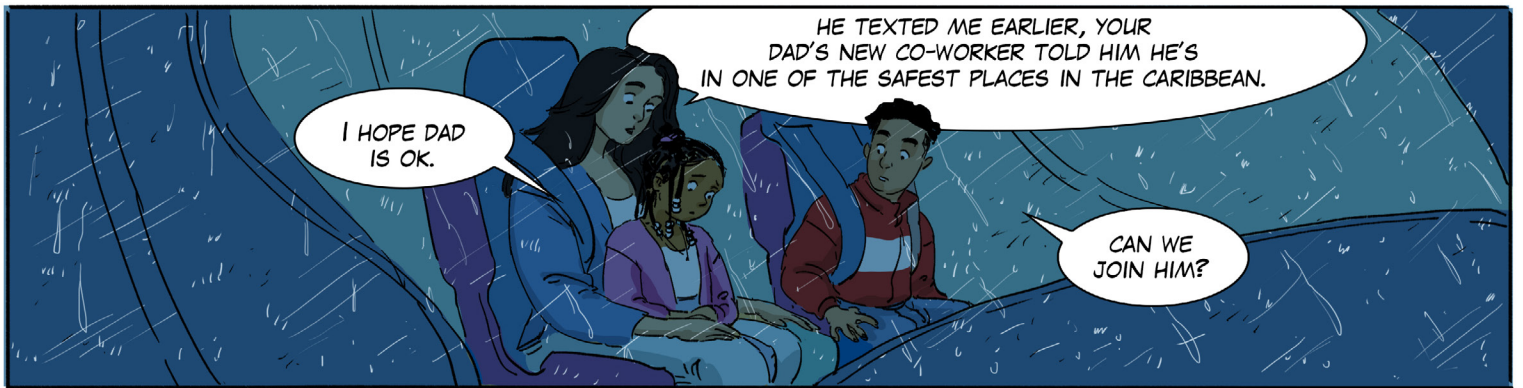
ILLUSTRATOR

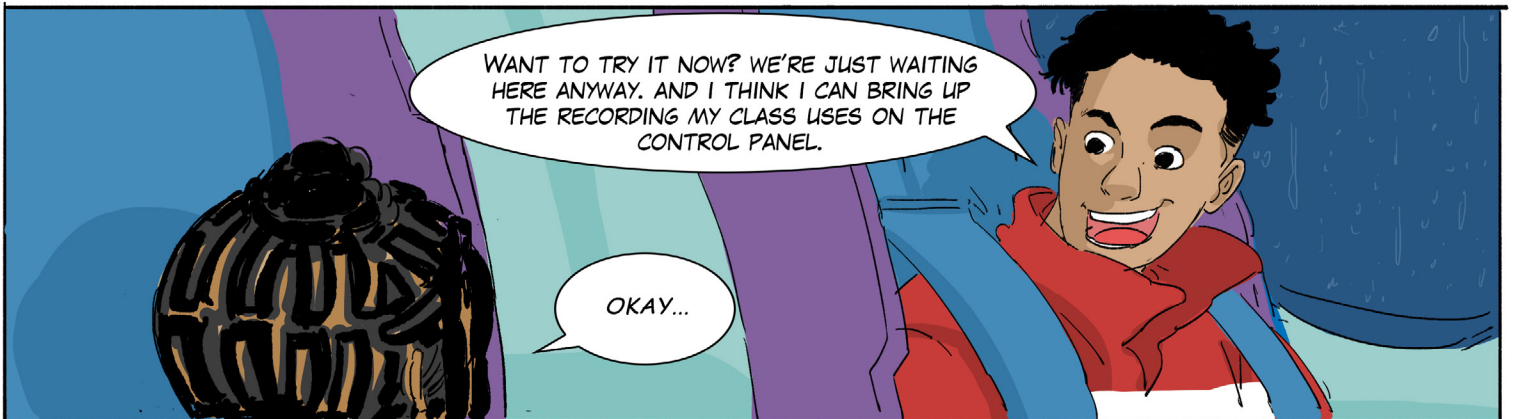
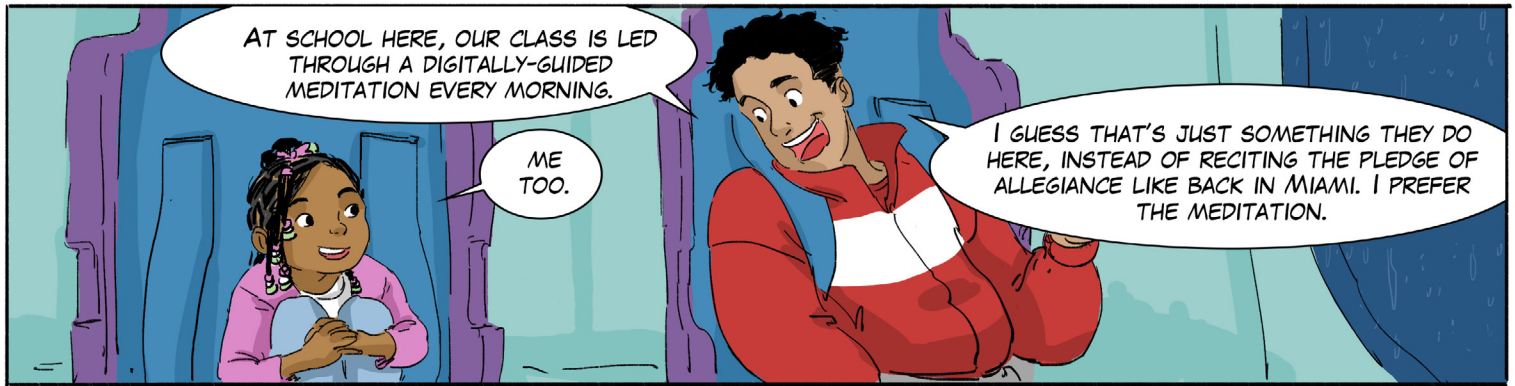
Rajendra Ramkallawan

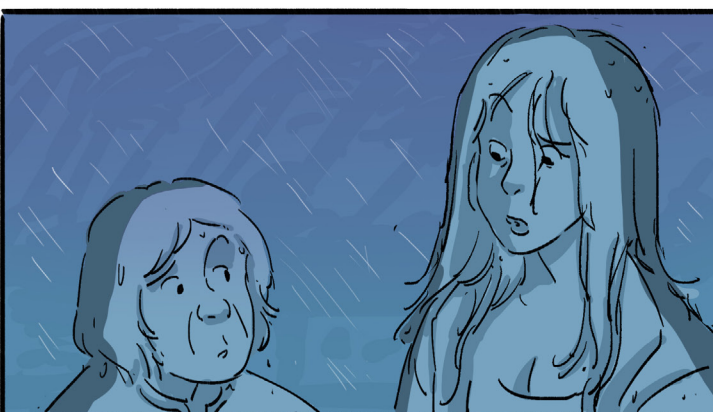
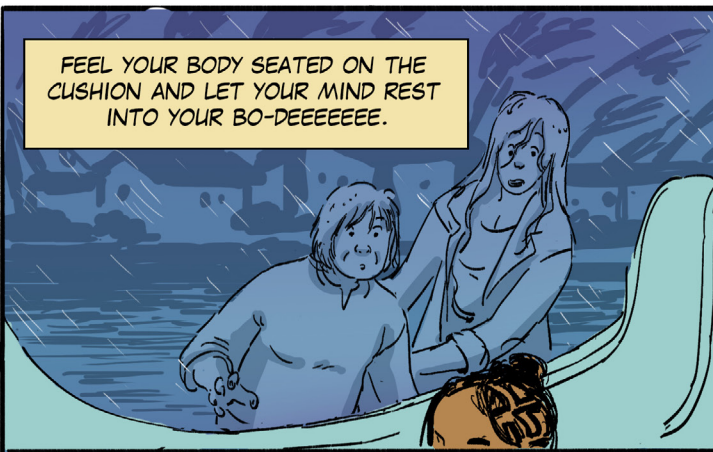
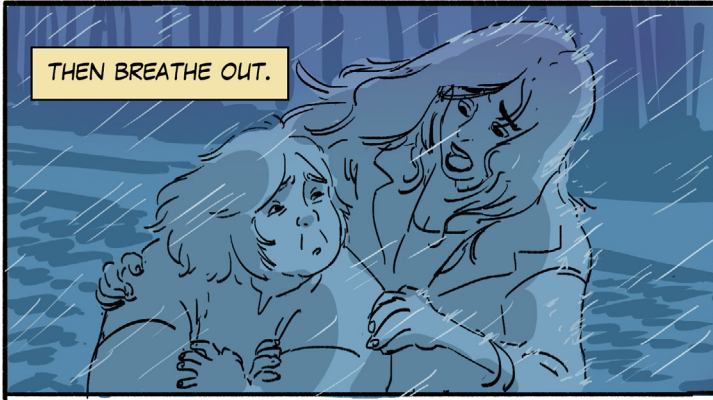
THE MOONSHOT CONCEPT

With basic needs such as food, clothing, water, and work being met for almost everyone in the Caribbean, a new lifestyle of wellness was introduced. This happened first in schools as part of a formal curriculum instructing in meditation, mindfulness, and mutual goodwill. Children were taught to care for themselves and each other, putting a value on fellow humanity to a level not previously seen in the world.

Sooner than anyone expected, this spread to the entire population of the region, and the Caribbean people became ambassadors of spiritual and psychological abundance. Living examples of how a philosophy of fulfillment led to a more prosperous and functional culture, with the natural beauty and serenity of the region greatly adding to the effect. By 2040, things were looking bright and the future could only get brighter.







CHAPTER 8

FÊTE TRAVAIL



ILLUSTRATOR

Everard McBain

THE MOONSHOT CONCEPT

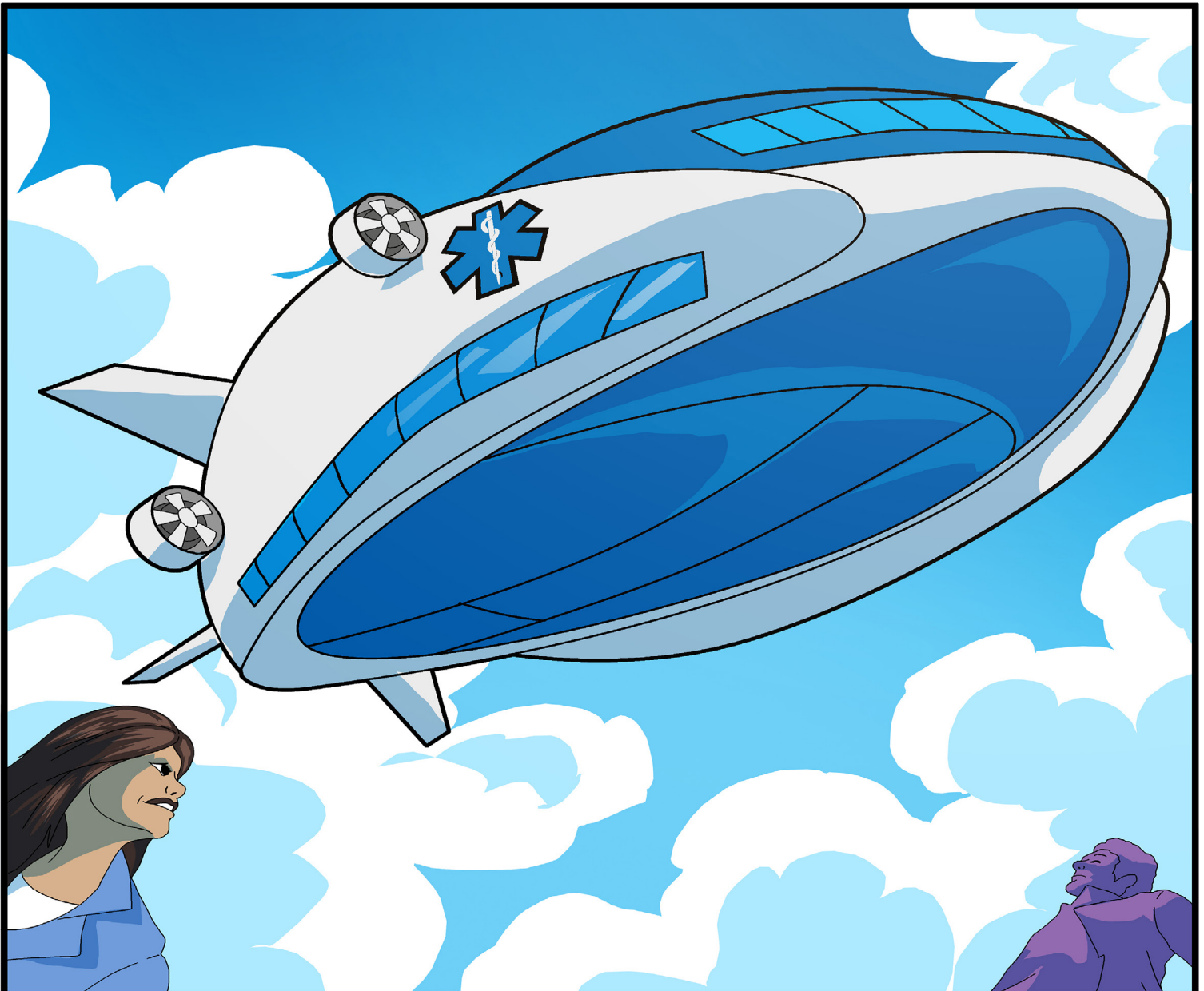
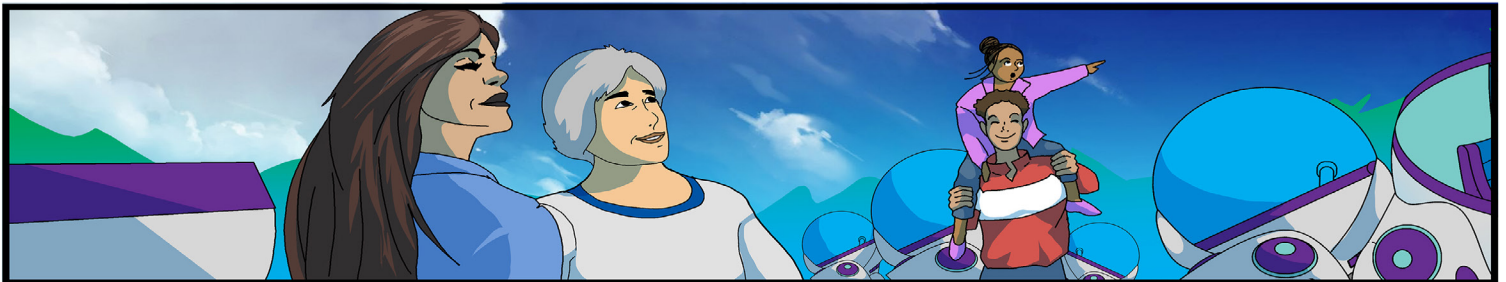
The Fête Travail is another form of inter-island transportation. Unlike the water-borne Sea Wee, the Fête Travail is a flight-based mass transportation system that uses direction-shiftable blades allowing for exceptional maneuverability and incredibly light touchdown. Based on a Lockheed Martin prototype airship from the 2020s, the Fête Travail is so gentle that it can land on a crab without injuring it.

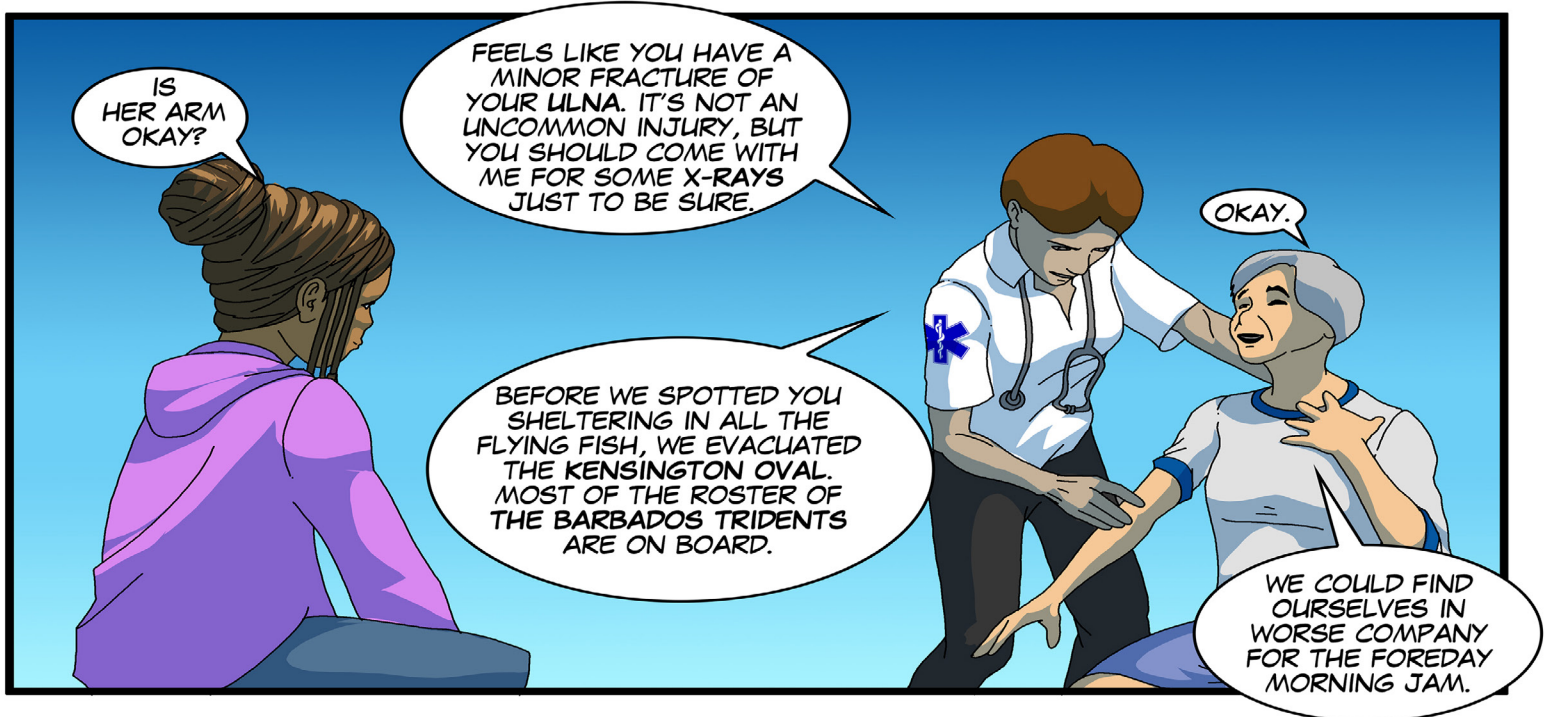
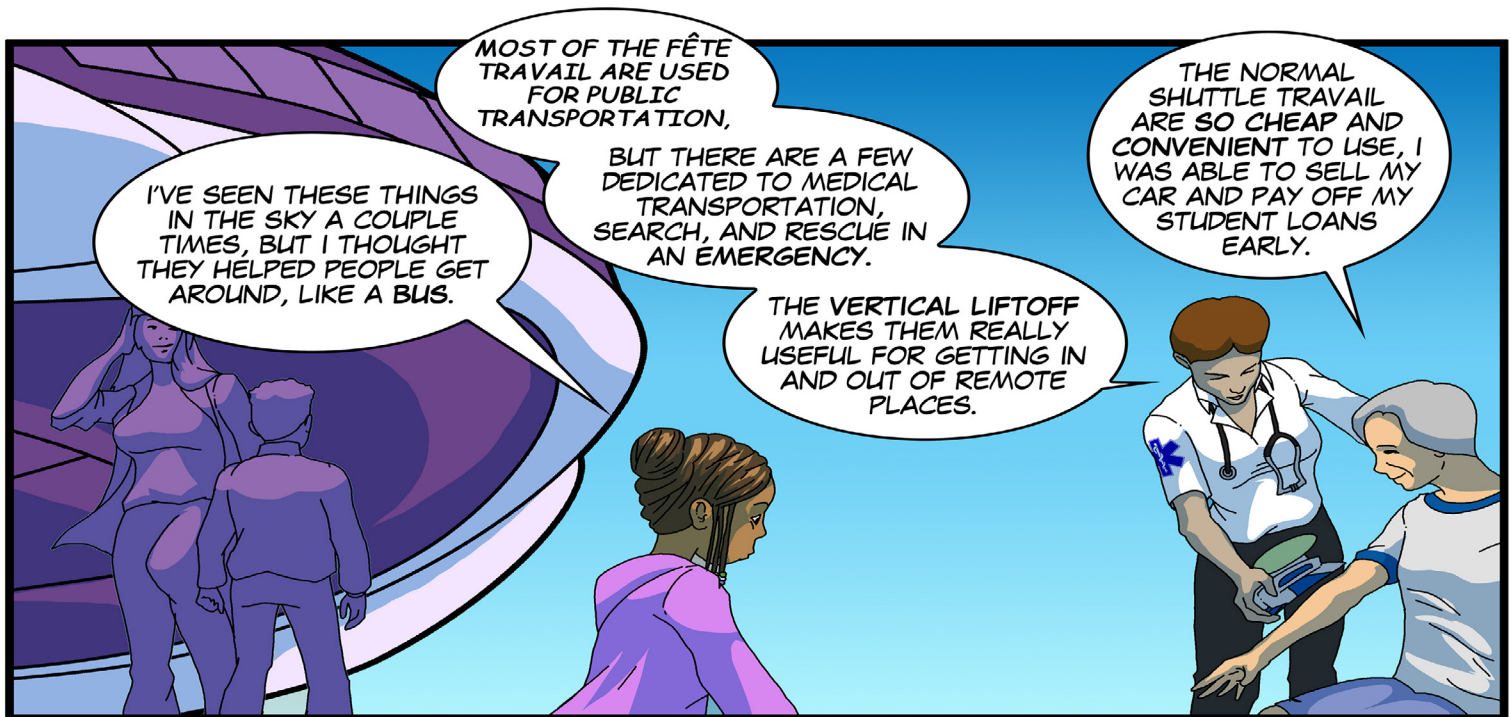
Deployed as both public and private transportation as well as emergency search-and-rescue capable of reaching otherwise inaccessible locations, the name Fête Travail is a mix of the concepts “party” and “work,” signifying the dual function of the different vehicles operating throughout the Caribbean in 2040. The Fête Travail is able to host a private group of recreational sightseers on one trip and facilitate a mass rescue of stranded wilderness enthusiasts the next.

ST. HELENS, ST. GEORGE, BARBADOS.

FLYING FISH POND BBD214.

10:24 A.M. FRIDAY, AUGUST 3RD, 2040.





CHAPTER 9

CARIBBEAN REALITY



ILLUSTRATOR

Mariyah Rahman

THE MOONSHOT CONCEPT

With the abundance of Digital Twins creating a landscape rendered precisely enough to generate a virtual version of the entirety of the Caribbean, the opportunity to provide access to anyone anywhere in the world was irresistible. Caribbean Reality is an app designed to preserve, celebrate, and make the Caribbean experience digitally available. The Caribbean can be accessed either from a purely sensory standpoint, exploring the beauty of the region from the comfort of one's home, or more from a more psychologically intimate one, from the personal perspective of one of its many citizens. Some of these experiences are free, while others can be provided to the user for a small cost.

This has led the culture and flavor of the Caribbean to become universally familiar around the world, similar to the effect American television had across the globe back in the 20th century. Most popular of all are the multiperspective digital versions of the many carnivalesque festivals, celebrations, and parades, some of which have become mass cultural events experienced by millions of people simultaneously around the world.

BRIDGETOWN, BARBADOS.

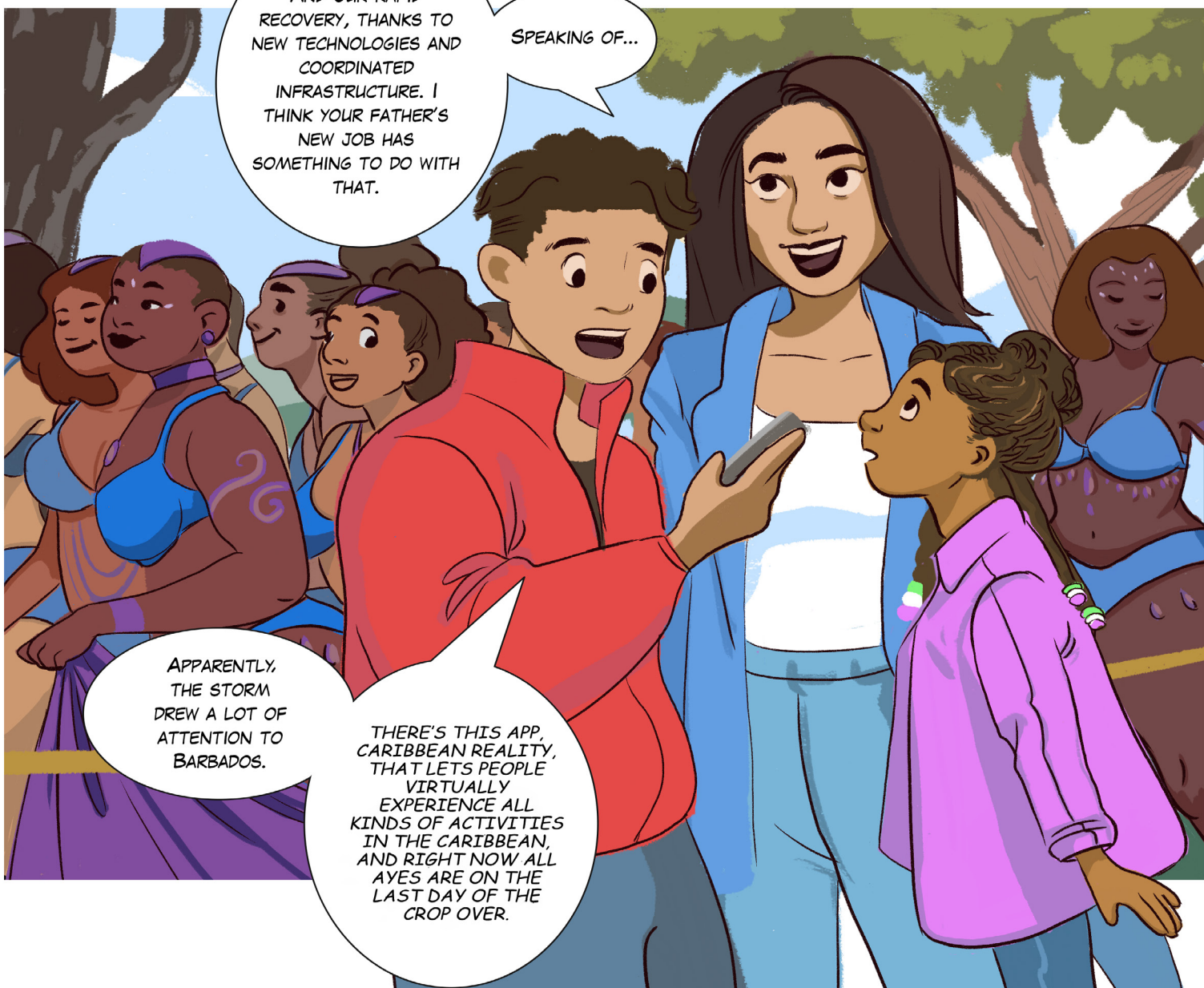
THE MIGHTY GRYNNER HIGHWAY. GRAND KADOOMENT.

9:24 A.M. MONDAY, AUGUST 6TH, 2040.



AND OUR RAPID RECOVERY, THANKS TO NEW TECHNOLOGIES AND COORDINATED INFRASTRUCTURE. I THINK YOUR FATHER'S NEW JOB HAS SOMETHING TO DO WITH THAT.

SPEAKING OF...



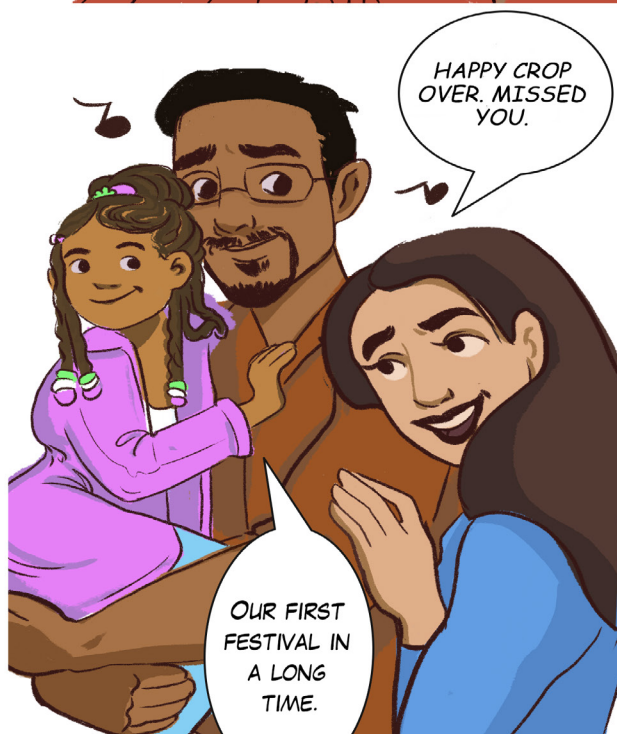
APPARENTLY, THE STORM DREW A LOT OF ATTENTION TO BARBADOS.

THERE'S THIS APP, CARIBBEAN REALITY, THAT LETS PEOPLE VIRTUALLY EXPERIENCE ALL KINDS OF ACTIVITIES IN THE CARIBBEAN, AND RIGHT NOW ALL EYES ARE ON THE LAST DAY OF THE CROP OVER.



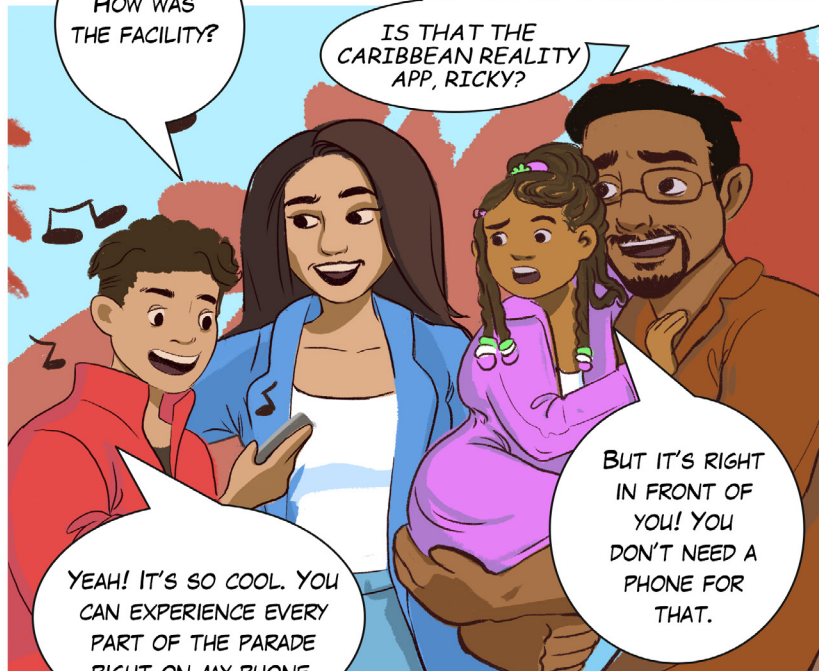
DADDY!

KIND OF INCREDIBLE,
ACTUALLY.
MY NEW CO-WORKER IS... BRILLIANT.



HAPPY CROP
OVER. MISSED
YOU.

OUR FIRST
FESTIVAL IN
A LONG
TIME.

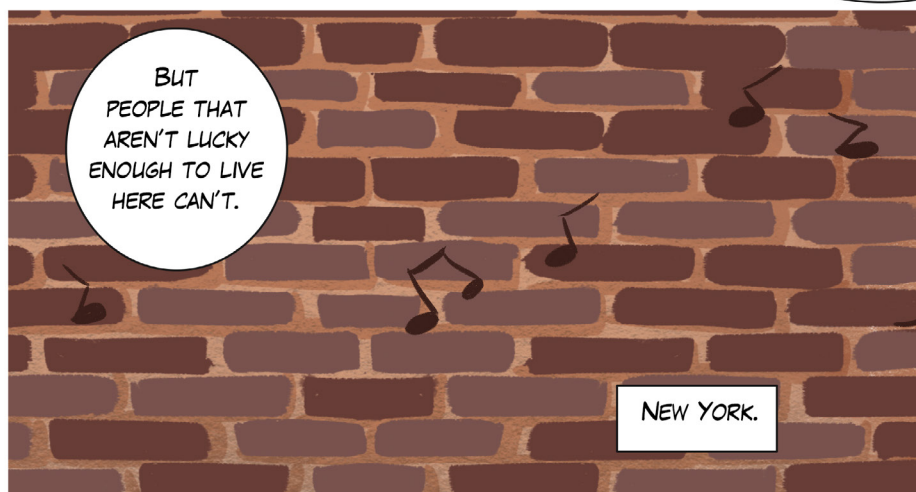


HOW WAS
THE FACILITY?

IS THAT THE
CARIBBEAN REALITY
APP, RICKY?

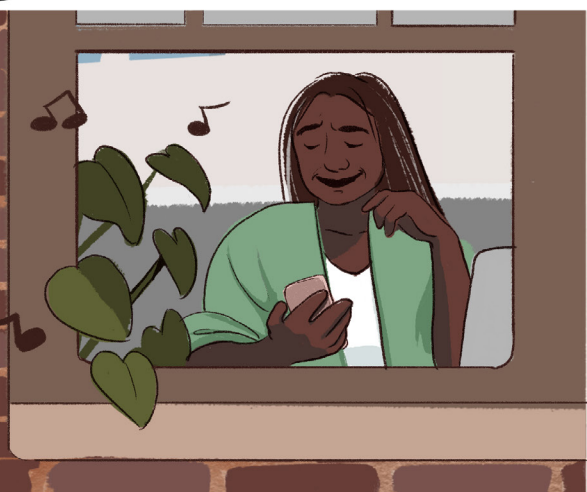
YEAH! IT'S SO COOL. YOU
CAN EXPERIENCE EVERY
PART OF THE PARADE
RIGHT ON MY PHONE.

BUT IT'S RIGHT
IN FRONT OF
YOU! YOU
DON'T NEED A
PHONE FOR
THAT.



BUT
PEOPLE THAT
AREN'T LUCKY
ENOUGH TO LIVE
HERE CAN'T.

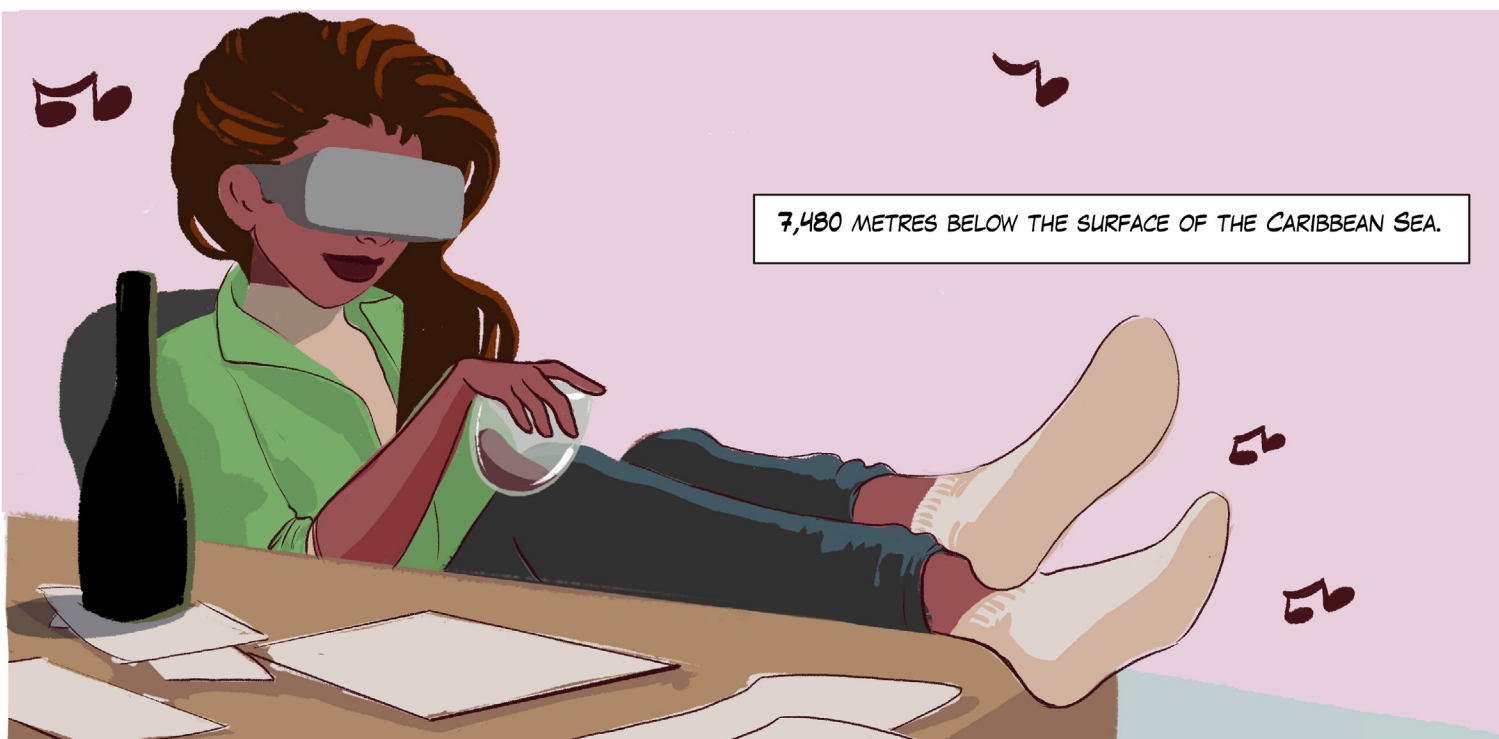
NEW YORK.



THAT'S ONE OF THE MANY BENEFITS PROVIDED TO THE WORLD BY THE DATA BEING COLLECTED AT MY NEW JOB.



7,480 METRES BELOW THE SURFACE OF THE CARIBBEAN SEA.





700 FEET ABOVE BISHOP'S COURT HILL.

THERE ARE PLENTY OF EXPERIENCES PROVIDED FOR FREE, BUT LOCALS CAN EVEN MAKE A LITTLE EXTRA MONEY IF THEY WANT TO SHARE THEIR OWN PERSPECTIVE.



THAT WAY, ANYONE CAN LIVE A LITTLE SLICE OF LIFE IN PARADISE.

SENEGAL.

MOMMY SAVED MY TEACHER'S LIFE!

I'M GOING TO GET GOOD MARKS THIS YEAR FOR SURE.



SORRY, BUD. PART OF MY JOB IS TO MONITOR THE COLLECTION AND STORAGE OF WIND ENERGY.

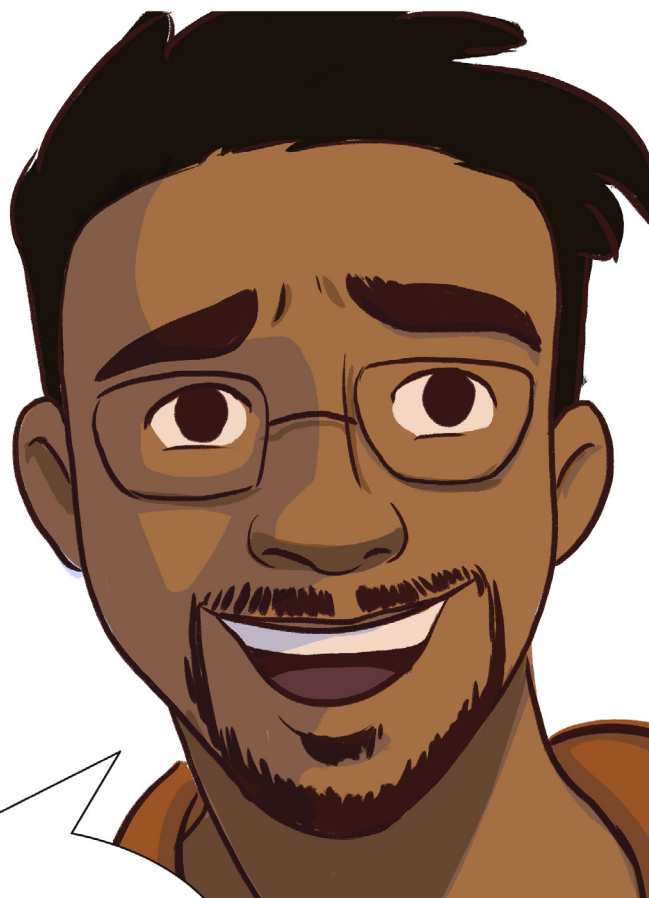
THE STORM PROVIDED ENOUGH TO POWER THIS CELEBRATION AND PUBLIC LIFE UNTIL THE NEEDED REPAIRS TO OUR INFRASTRUCTURE CAN BE MADE.

WON'T SCHOOL BE POSTPONED WITH ALL THE DAMAGE TO THE ISLAND?

RICKY TOOK GOOD CARE OF HIS SISTER DURING THE STORM. HE'S GROWING UP.



I'M GLAD YOU WERE OKAY DURING THE STORM, DADDY.



I WISH I COULD HAVE BEEN HERE WITH YOU GUYS, BUT WE WERE ABLE TO CULL A LOT OF IMPORTANT DATA ABOUT THE EFFECTIVENESS OF THE ISLAND'S CURRENT STORM PREPARATIONS.

WE'LL DO EVEN BETTER NEXT TIME.



AFTER ALL, THIS IS THE CARIBBEAN. TOMORROW IS WHAT WE DO BETTER THAN ANYONE ELSE...

JOIN US!



When we set out to create a space for the big ideas to drive Caribbean development, we couldn't dream that a movement would ensue. But the enthusiasm and excitement inspired by Pivot proved that there was a void waiting to be filled in our region, by our people.

Not only was there a need for urgent, innovative, and sustainable solutions to the problems facing the Caribbean (like climate change), but there was also a need for an injection of what Prime Minister Mia Mottley referred to as cultural confidence; the belief that our ideas are valuable to the world.

And we are proud to say the Pivot Movement has begun to fill this void. Throughout the pages of this book, you have seen the vision for the Caribbean in 2040. These moonshots originated in the minds of Future Makers who were given the space and the freedom to think big and work together. And just look at what we have created!

Looking ahead, our mission is to remind all Caribbean people that they too are Future Makers bursting with big ideas. Our homes, schools, and workplaces must be innovative spaces where we all have the freedom to create the future we want to live out. We believe that this is the essence of Pivot. And our role at IDB will always be to create the virtual and physical launch pads for your moonshots.

We look forward to seeing the pictures on these pages come to life as we build the people and places of the Caribbean together.

Thank you for making moonshots with us.

*Therese Turner-Jones,
General Manager of
Country Department Caribbean Group, IDB*





PIOT THE FUTURE MAKERS

