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GLOBAL CHALLENGES



WE
OFFER



STARTUP SOLUTIONS

FOR SINT MAARTIEN



BIDBOOK BY
STARTUP DELTA
IMPACT CITY



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STARTUP SOLUTIONS
FOR SINT MAARTEN

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THE
HAGUE
26-09-17

LAUNCH
CALL TO
ACTION

"TOGETHER,
WE CAN
CREATE THE
CONDITIONS
FOR
MEANINGFUL
SUPPORT OF
SINT MAARTEN"

CONSTANTIJN VAN ORANJE & MARTIJN WIJNEN



ST MAARTEN: ENTIRE BUILDINGS REDUCED TO RUBBLE

CNN SEPTEMBER 2017

VAST DESTRUCTION IN THE CARIBBEAN

NY TIMES, SEPTEMBER 2017



PHILIPSBURG, ST. MAARTEN – BOATS AND CORRUGATED METAL LAY PILED UP ON THE SIDES OF THE ROADS ON THE HURRICANE-

TATTERED ISLAND OF ST. MAARTEN.
NY TIMES 10 SEPTEMBER 2017



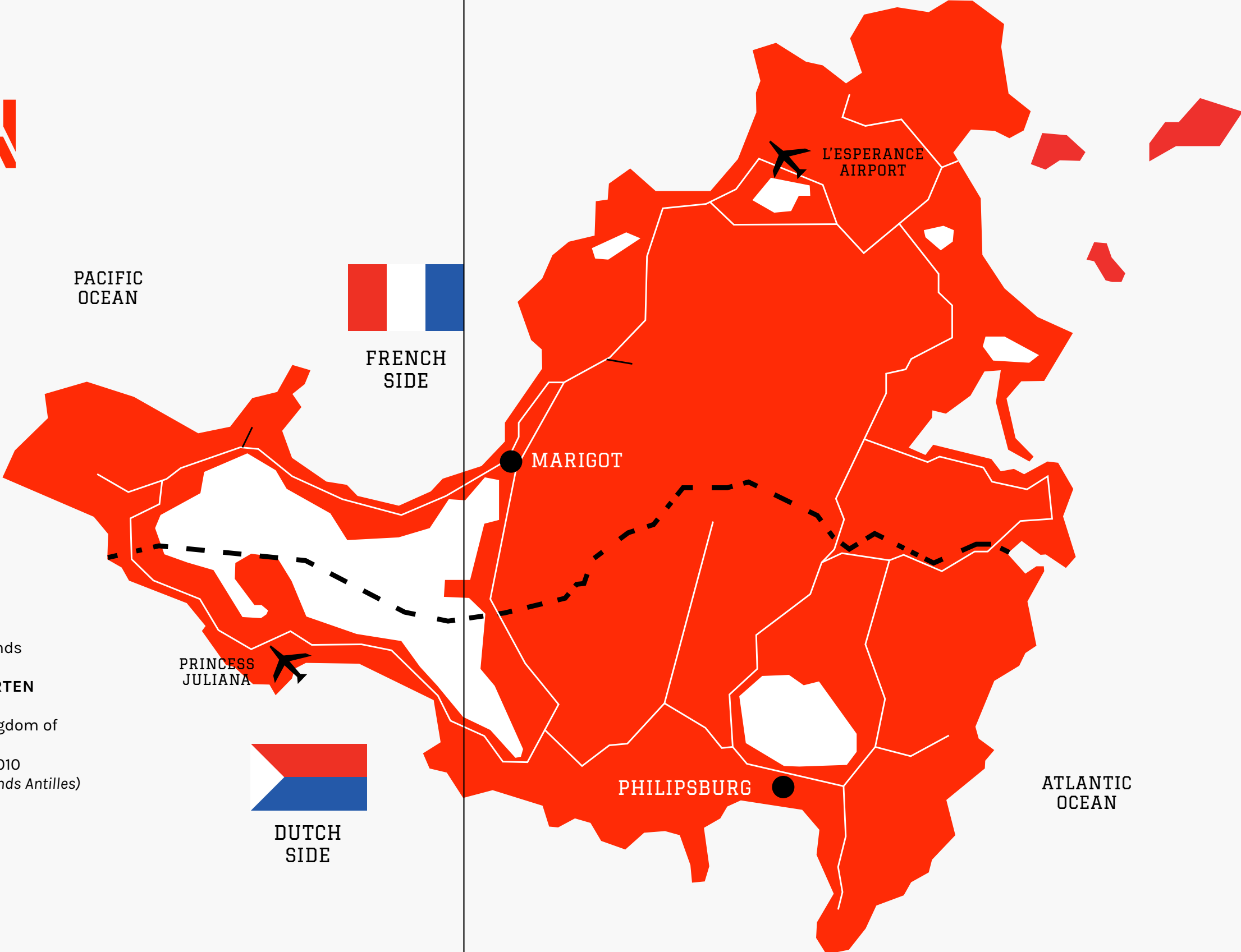
70% OF THE INFRASTRUCTURE HAS BEEN DESTROYED
THE GUARDIAN, SEPTEMBER 2017



DISASTER AND RELIEF: GETTING THE RIGHT STUFF
TO THE RIGHT PLACE AT THE RIGHT TIME
THE DAILY HERALD, SEPTEMBER 2017

SINT MAARTEN

CAPITAL	PHILIPSBURG 180°2'N 630°3'W
OFFICIAL LANGUAGES	- Dutch - English
SOVEREIGN STATE	Kingdom of the Netherlands
LEGISLATURE	ESTATES OF SINT MAARTEN Autonomy within the Kingdom of the Netherlands. Established 10 October 2010 (dissolution of the Netherlands Antilles)
AREA	Total 37 km2 (14 sq mi)
POPULATION	33,609
GDP (PPP)	- Total \$400 million - Per capita \$11,400





PREFACE

On Wednesday 6 September, hurricane Irma, the most powerful hurricane ever recorded in the Atlantic Ocean, ripped through Sint Maarten and caused unimaginable damage. Lives were lost and 91% of the buildings suffered damage of which one third is completely destroyed.

The Netherlands Ministry of Defence and humanitarian organisations like the Netherlands Red Cross are working hard to provide humanitarian assistance. Considering the current needs, full recovery of Sint Maarten will take years.

To help kickstart Sint Maarten Startup-Delta took the initiative to ask startups to share their solutions for Sint Maarten. This is the overwhelming result of that simpel question!

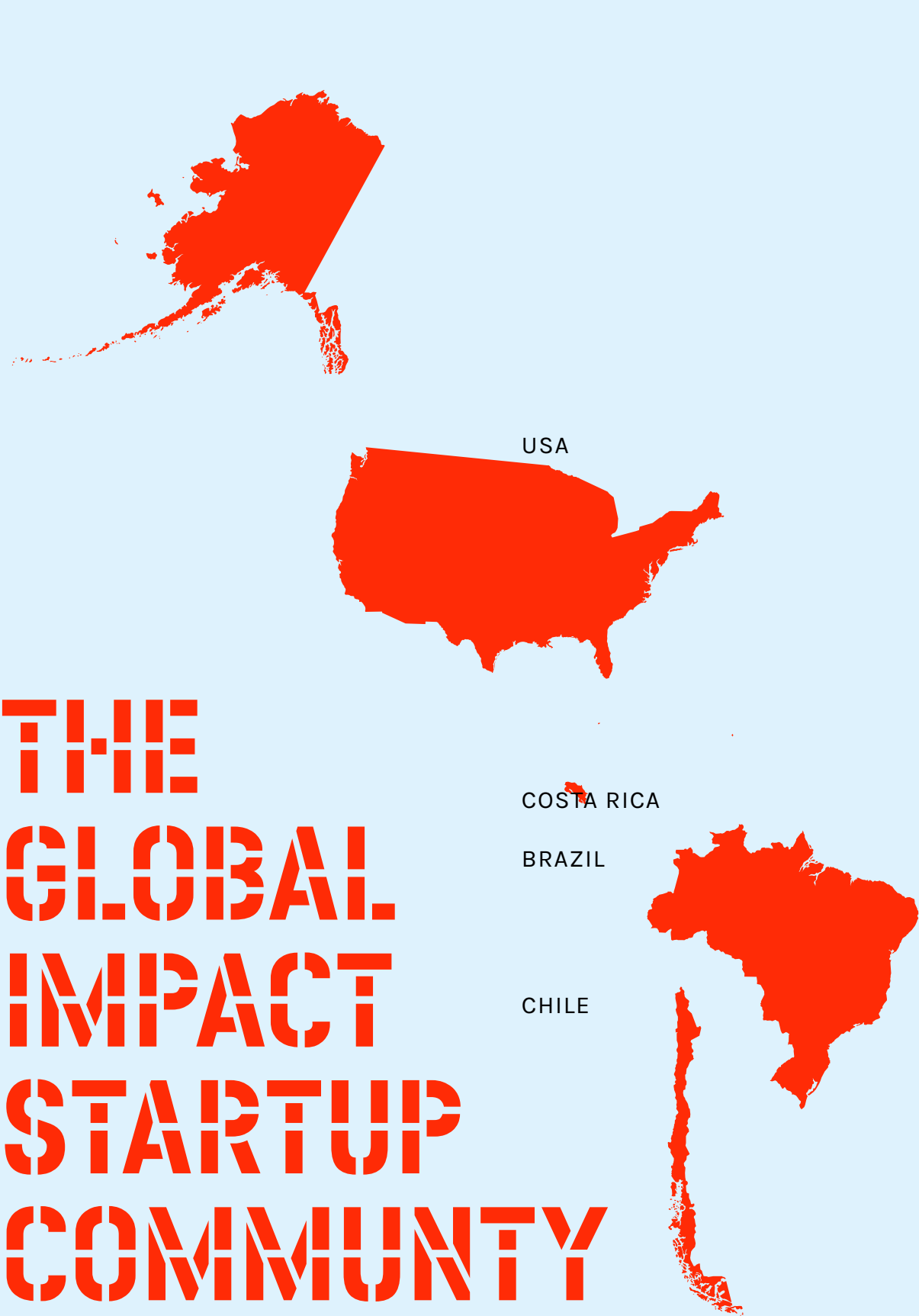
Together with the Red Cross, Open House, InnoFest, Impact City, DCHI and the ministeries of Defence and Internal Affairs we selected the startups that could contribute to building Sint Maarten back better. More resilient, more sustainable, smarter, cleaner etc.

We hope all the people and organisations that are involved in the recovery of Sint Maarten will be inspired by these startups and include them in their plans and projects. That way we give these startups the opportunity to proof their worth and, more importantly, help kickstart Sint Maarten!

BIDBOOK BY
SARTUP DELTA &
IMPACT CITY



- 113
STARTUP
SOLUTIONS
FROM
27
COUNTRIES
-
-



TYPES OF SOLUTIONS

LEGEND



ENERGY SOLUTION



TOURISM /
ECONOMIC
SOLUTION



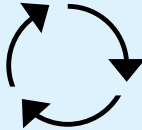
ORGANIZING TOOL



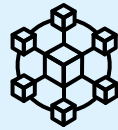
HOUSING
SOLUTIONS OR
BUILDING
MATERIALS



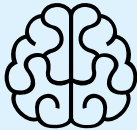
DISASTER RELIEF
SOLUTION



RECYCLING OR
WASTE SOLUTION



LOGISTIC SOLUTION



EDUCATIONAL
SOLUTION



SHARING SOLUTION



FINTECH SOLUTION



WATER SOLUTION



001

TYPE



NAME	ACE CLEAN COOKSTOVE
PRODUCT	African Clean Energy (ACE) is the manufacturer and distributor of the ACE 1 Solar Biomass Energy System. The ACE plant in Maseru has been producing clean cookstoves since 2011, and the ACE 1 has been manufactured in the ACE factory since 2014.
PLUS	Easily storable disaster relief product.
WEBSITE	www.africancleanenergy.com



002

TYPE



NAME	AIDMETRICS/AIDINNOV	PLUS	Experiences on Sint Maarten with innovative solutions can be used to improve disaster relief en recovery programs in other disaster areas.
PRODUCT	The online AidMetrics repository of humanitarian aid solutions and tools, aims to improve aid responses by facilitating humanitarian respond-	WEBSITE	dchi.nl/projects/aidmetrics/



003

TYPE

NAME **ALKEMY ENVIRONMENTAL**

PRODUCT Alkemy Environmental holds patented technology for recycling industrial waste streams into environmentally friendly concrete aggregate. We will provide the island with a steady supply of concrete aggregate for current rebuilding efforts and remain on the island to supply future growth efforts. Our technology would divert millions of tons of waste from landfills and eliminate current import and mining operations associated with sourcing aggregates.

PLUS Waste solution that can also contribute to recovery and rebuild.

WEBSITE www.alkemyenvironmental.com

WASTE SOLUTION THAT CAN ALSO CONTRIBUTE TO RECOVERY AND REBUILD

IN 2 YEARS\$ TIME THEY
TRAINED 350 PEOPLE,
CONDUCTED 88
PROJECTS AND
TESTED 60 CROPS\$

004

TYPE



NAME B4AGRO&FOOD SYSTEMS

PRODUCT Product: Train local people to grow their own fresh, healthy, local greens on Hybrid Hydroponics systems that were developed in Suriname. This is not proof of concept but proof of work. In 2 years time they trained more than 350 people, conducted 88 projects, tested 60 crops and established a low tech innovative system.

PLUS	Product is tested and proven successful. Can help diversify the economy and provide locals with new source of income.
------	---

WEBSITE www.b4concepts.com





005



TYPE

NAME **BASWOOD CORPORATION**

PRODUCT Baswood has a proven and natural biological water treatment system that treats wastewater suitable for reuse. As St. Martin rebuilds implementation of a system that "recycles" water consistently will be critical, whether it's for reuse or discharge to the environment. The system is designed to utilize very little energy compared to all other treatment alternatives.

PLUS More mature company.

WEBSITE **www.baswood.com**



006



TYPE

NAME **BCOMP Ltd.**

PRODUCT Building materials. A bamboo load-bearing structure enclosed with flax fiber reinforced composite panels designed for maximum strength, using renewable materials. The flax fiber reinforced roof and wall panels can be manufactured locally and cut to size according to the supplied building plans. The combination of two of nature's strongest materials in a smartly engineered package can provide hurricane prove, renewable, affordable, and quickly built homes for people in need of protection.

PLUS Construction material with multiple purposes, tailormade.

WEBSITE **www.bcomp.ch/en**





007



TYPE



NAME BEAD

PRODUCT Internet of things. they can build Saint Martin in a way that it becomes an Intelligent island rather than smart. An island which can connect with its occupants. With the help of BEAD and its sensors, the island can produce its own data to optimize the living standards and consume energy in an efficient way.

PLUS Can be integrated in rebuilding proces to connect houses to the internet.

WEBSITE www.enbead.com



008



TYPE



NAME BETON BALLON

PRODUCT Construction of earthquake and hurricane proof buildings, by making curved concrete structures over a re-usable balloon. Sustainable by using less concrete (50%), less steel (70%) and less CO2-emission (60%).

PLUS Product has been tested and used. Is ready to scale up. Proven to be earthquake and hurricane proof. Can be build locally in 5 days.

WEBSITE www.xoliving.nl

SUSTAINABLE
BY USING 50%
LESS CONCRETE,
70% LESS STEEL
AND 60% LESS
CO2-EMISSION



009



TYPE



NAME BINISHELLS

PRODUCT Binishells provide a suite of innovative building solutions resulting in

PLUS New concept, Sint Maarten could be the first with a Binishell resort

WEBSITE www.binishells.com

thin shell concrete structures that are naturally resistant to all manner of natural disasters. Binishells are naturally aerodynamic so they have withstood high winds and fires. Structurally they perform monolithically and therefore distribute loads to their foundations effectively allowing them to withstand earthquakes.



010

TYPE

NAME	BIOMIMICRYNL
PRODUCT	Consultants offering portfolio of solutions using nature's laws. With the use of biomimicry, we can create structures and roads that provide healthy habitat, rooftops that evaporate or collect rainwater like the tree canopy once did and building materials that clean the air, sequestering and storing carbon like trees and wetlands.
PLUS	Made to measure advise.
WEBSITE	www.biomimicrynl.org



011

TYPE

NAME	BLOCKAROO PAY / DUKU
PRODUCT	Blockchain-based apps & consulting Building a cross-border payment solution for diaspora (migrants) as one of major projects, all powered by Blockchain technologies
PLUS	Entrepreneur that can build a tailor-made solution for payments on the island using blockchain.
WEBSITE	www.duku.cash



012

TYPE

NAME	BLOKABLE
PRODUCT	Hurricane resistant housing and smart housing units. Establish a Blokable production facility in Miami, FL to build and ship units at a rate of 50 per month. Train and establish a workforce on Saint Martin for site preparation, installation, and finishing of the housing units and rebuild the island as a connected and resilient community.
PLUS	Can be shipped on short notice.
WEBSITE	www.blokable.com



013

TYPE

NAME	BLUERISE
PRODUCT	Ocean Thermal Energy Conversion: converting ocean temperature differences into electricity
PLUS	High potential, especially for Caribbean region. TUDelft startup.
WEBSITE	www.bluerise.nl



014



TYPE

NAME **BOUWMARKT BUURMAN**

PRODUCT Shop with recycled buildingmaterials, also offering workshops and tools.

PLUS Stimulate rebuilding and local entrepreneurship on the island while recycling the building materials that are now treated as waste.

WEBSITE **www.buurman.in/team**



015



TYPE

NAME **BRIGHTAP**

PRODUCT Smart Water Meter. BrighTap IOT water meter sensor and WAD (Water consumption and quality) analytics data platform (inc. app and web data services). BrighTap IOT water meter sensor can be attached to any standard water tap, pipe or hose to inform in real time of water quality and consumption and help user reduce their water bills.

PLUS Can be integrated in new building that are being build.

WEBSITE **www.bwareit.com**



016

TYPE

NAME **BOSAQ**

PRODUCT Off the grid mobile solution. Unclear if solution has being tested yet and if it is in production.

WEBSITE **www.bosaq.com**



017



TYPE

NAME **CEMENT FOR SINT MAARTEN / DELTA CONCREET CONSULT**

PRODUCT Cement recipe with local ingridients Can develop a ‘tailored GPC recipe for Sint Maarten. Based on insight into the local socio-technical context and locally available raw materials, they expect that the concrete products based on GPC-technology will be a good, welcome support in the reconstruction efforts. In can be well aligned with the local construction styles and locally expressed intentions to rebuild homes with concrete to increase future safety and resilience.

PLUS A more experienced company, with local knowledge. Have worked with

WEBSITE **www.concreet-pm.nl**



018



TYPE

NAME **CHARGEDUP**

PRODUCT Is building a network of renewable energy powered, mobile phone charging stations and would love to bring them to Saint Martin. As mobile phones are crucial for communication and safety, it is important that citizens have a way to charge their phones.

PLUS Fast way to secure communication after power is lost.

WEBSITE www.chargedup.green

FAST WAY TO SECURE
COMMUNICATION
AFTER POWER
IS LOST





019

TYPE 



NAME **CLEANER FUTURE OY**


PRODUCT Solar power plants that also improve the power quality and availability. They use developed technology to save energy and decrease the dependency from fossil fuel generators. Our energy storage provides continuous power, even if the solar power is not available or if generators don't work.

PLUS Unclear if they are producing already.

WEBSITE **www.cleanerfuture.fi**



020

TYPE 

NAME **CLIQUE TECHNOLOGIES**

PRODUCT Clique Technologies; a tech startup that is working to accelerate the worlds shift to renewable energy and using it in optimised ways- energy solutions. Several solutions: solar energy storage, Li-Ion batteries to store energy, Current (AC) is very useful in a central energy grid system etc.

PLUS Multiple products in renewable energy

WEBSITE **www.clique-tech.com**



021



TYPE



NAME **COLDHUBS**

PRODUCT ColdHubs are 100% solar-powered, stand-alone, walk-in cold rooms, installed in markets, farm coops and food processing centers to store and preserve perishable foods 24/7. ColdHubs ameliorates the impact of food spoilage due to lack of energy to cool and food.

PLUS Good for perserving fresh food after crisis.

WEBSITE www.coldhubs.com



022

TYPE



management modules enable clients to efficiently allocate labor resources, automate project documentation, reduce administrative overhead and continuously improve their operations. They have proven to reduce the time it takes to build or remodel a structure by 25% and sometimes up to 50%.

PLUS Proven technology with more than 30K users.

NAME **CONSTRUCT APP**

PRODUCT Construct App saves time and money. Integrated communication and task

WEBSITE www.constructapp.io



023



TYPE



NAME **CONSTRUCTION ROBOTICA**

PRODUCT Two products: SAM bricklaying robot and MULE block assist device are proven technologies that improve the productivity of workers by 3 to 5x's their normal productivity. The brick-laying robot installed 4,101 bricks in 12 hours with 2 masons and a laborer, the crew averages between 2,500 and 3,000 daily. The MULE can easily double or triple a block layers ability to install block and limit the stress on their body.

PLUS More experienced company, that can help speeden up the recovery.

WEBSITE www.construction-robotics.com

THE BRICKLAYING
ROBOT INSTALLED
4101 BRICKS IN
12 HOURS



024



TYPE ⚡

NAME CRIDCURE INC.

PRODUCT GridCure provides Software-as-a-Service predictive analytics for electric utilities. GridCure combines advanced analytics, innovative research, and user-intuitive design to offer simple and customizable solutions to its clients to help them make sense of their data and implement data-driven change. GridCure’s technology helps utilities manage their energy more efficiently, incorporate renewable energy resources, and make better operational and financial decisions.

WEBSITE www.gridcure.com



025



TYPE ↻

NAME CUBO ENVIRONMENTAL TECHNOLOGIES S.A.

PRODUCT CUBO produces technology for the efficient utilization of water: compact

and modular units of Drinking Water Treatment and Wastewater Treatment. A robust and compact technology which uses the most current standards of treatment, providing the same effectiveness of treatment of large fixed/traditional installations, with the advantage of being Plug-and-play, modular and easy to install, operate, maintain, and transport.

WEBSITE www.cubo-et.com



026



TYPE 🏠

NAME CYBE CONSTRUCTION

PRODUCT 3D-printer for concrete. CyBe Construction offers new solutions and redefines the construction industry by developing, applying and offering mobile and modular 3D Concrete Printing techniques. This way of construction is much cheaper and faster than traditional methods while retaining the same high quality of the concrete.

PLUS Experienced company that can offer fast permanent housing. Machines can be transported to Sint Maarten to print on site.

WEBSITE www.cybe.eu



027



TYPE 💧

NAME DESOLENATOR

PRODUCT Desalination unit to create drinking-water on solarpower. Mobile solution.

PLUS Are currently building a bigger desalination plant in Dubai to create drinking water for a city on the same technology.

WEBSITE www.desolenator.com



028



TYPE

NAME DISCOVER TECHNOLOGY SYSTEMS (Pty)

PRODUCT An Amphibious house made from low-cost bamboo and features oil-drums in the base of each building. These drums provide buoyancy for the already light-weight material. Each house is anchored to the ground with four steel rods, with the oil drums serving as the base that the house sits on. When the rains come, the house rises on its rods, stopping it from washing away. It will take two hours for a workforce of 3 men to build a single house.

WEBSITE www.facebook.com/DTSinnovations/photos/a.1173301402720550.1073741827.1170597462990944/1266606756723347/?type=1&theater



029



TYPE

NAME DUTCHCHAIN

PRODUCT Blockchain solution for aid to people in person (digital vouchers).

PLUS Tested in Groningen. Made to measure solutions possible for Sint Maarten. Safe and fair.

WEBSITE www.dutchchain.systems/product.html



030



TYPE

NAME eCARUP

PRODUCT Energy monitoring tool. Smart-me offers the technological solutions to make energy monitoring easy, affordable and suitable for the mass. All of the products are able to measure different energy sources such as current, heat, water or gas and upload the data via Wi-Fi interface directly into the smart-me cloud. No additional hardware is needed for the integration, the devices use the existing network and can be easily managed via a smartphone, a tablet or the computer. This is the easiest option to visualise the usage of energy in real time, to analyse the metered values and to optimise the consumption.

PLUS One tool to monitor different sources.

WEBSITE www.smart-me.com

EASY,
AFFORDABLE AND
SUITABLE FOR
THE MASS





031



TYPE



NAME ECOLOBLUE WATERSTATION

PRODUCT Waterstation on solar energy that produces up to 40.000 liters of water per day from the air.

PLUS Local sustainable water production

WEBSITE www.ecolobue.com



032



TYPE



NAME ECOVATIVE

PRODUCT Biomaterial. Structural materials for use in building construction using our grown materials platform. Transfer technology to local producers so that structure can be grown on the island. Can be applied as a traditional building material (cut, processed, and dried). Applications are structural (walls), insulating (walls, roofs), and interior (acoustics, etc).

PLUS Award winning company. Material can be grown on the island. Takes only 9 days to grow. Can also be used for leather-like material (biotextile).

WEBSITE www.ecovatedesign.com



033



TYPE



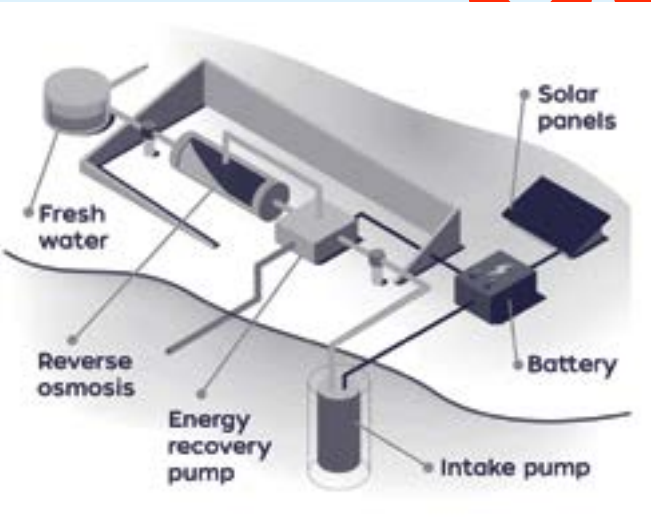
NAME EDUCATION BOX

PRODUCT A mobile media box for education, developed for Warchild in 2005. The system comes with a projector, medi-a player, audio system and harddisk, all in one box. Its easy to load the sys-tem with educational programs and movie clips. This box was developed for educational purposes in hard to reach areas.

PLUS Can be used temporaly untill the schools are functioning again.



034



TYPE



NAME ELEMENT WATER MAKERS

PRODUCT Desalination of sea water using a sys-tem of continuous reserve osmosis powered by sustainable energy.

PLUS Awardwinning TU Delft company. Have build an installation on the British Virgin Island.

WEBSITE www.elementalwatermakers.com



035



TYPE

NAME **ELUM ENERGY**

PRODUCT The Energy OS: the first software platform that allows to monitor and control distributed energy systems (PV + Storage or PV + Storage + Diesel for instance) in poor-grid /off-grid setup and reduce OPEX of these site by optimising battery and generator management. VC funded startup that has already installed in Africa: Morocco, Ivory Coast, Senegal, Burkina Faso, Ethiopia.

PLUS Startup with experience in other countries

WEBSITE www.elum-energy.com

THE FIRST
SOFTWARE
PLATFORM TO
MONITOR AND
CONTROL
DISTRIBUTED
ENERGY
SYSTEMS

SPECIFICALLY
DESIGNED
FOR ISLANDS.
PROTECTING
COAST AND
GENERATING
ENERGY



036



TYPE

NAME **ENERGY ABSORBING BREAKWATER**

PRODUCT Energy absorbing breakwater. The technology is created precisely for the islands - our breakwaters will not only protect the coast from wash-out by waves, but also convert the received energy to electricity and seawater desalination.

PLUS Specifically designed for islands. Protecting coast and generating energy.

WEBSITE [www.linkedin.com/pulse/energy-absorbing-breakwaters-mic hael-ly-tovchenko/](https://www.linkedin.com/pulse/energy-absorbing-breakwaters-mic-hael-lytovchenko/)



037



TYPE

NAME **ENERVALIS NV**

PRODUCT Microgrid. maximal local smart green microgrid solution consisting of ABB hardware and Enervalis software which has the potential to create a real dynamic local green energy community with the inhabitants in scope of the microgrid

PLUS Can facilitate a complete smart grid for the island.

WEBSITE www.enervalis.com





038



TYPE

NAME	EUROMATRIX7 – ENVIRONMENTAL URBAN DEVELOPMENT
PRODUCT	Uses the construction waste and materials available on the island in the construction of emergency accommodation units, and at the same time release wastes process, reuse and other ideas for resources management. We have a short-term plan (210 days) for rapid resettlement and provision of necessary services, and a long-term development and development plan (4YR).
PLUS	Is not a product, but a made to measure plan for Sint Maarten.
WEBSITE	www.euromatrix7.com

WE HAVE A SHORT TERM PLAN FOR RAPID RESETTLEMENT AND PROVISION OF SERVICES



039



TYPE

NAME	FINCH FLOATING HOMES
PRODUCT	Finch Floating Homes provides affordable, sustainable and typhoon resistant housing for the vulnerable delta's of developing economies. Finch Floating Homes is currently in a start-up phase. They make high quality, affordable buildings made from massive timber. It is a prefabricated building system that can be applied to any target group and application; whether it is applied as a studio, a 3-room apartment, an office, etc...
PLUS	Startup, but with more mature partners (architect, university) on board. Experience with these buildings in Philippines. Hurricane proof.
WEBSITE	www.finchfloatinghomes.com



040



TYPE

NAME **FLEXIBUSTER**

PRODUCT SEaB Energy proposes its FLEXIBUSTER™: a small-scale waste-to-energy appliance that allows Saint Martin to process its own organic waste, and harvest renewable energy and other valuable resources from that waste. Offers a continuous electrical power supply, independent of weather conditions or day/night time, as long as organic waste is available.

PLUS Sustainable energy from organic waste from hotels and cruiseships can provide energy. Is proven technology and can be shipped in 3 months.

WEBSITE www.seabenergy.com/products/mb400/



041

TYPE

NAME **FLEXOTELS**

PRODUCT Foldable hotelrooms. Easy to transport. Quick setup. Sustainable.

PLUS Temporary solution for damaged hotels on the island. Proven technology and can be shipped quite easily. Also a model with joined bathrooms available.

WEBSITE www.flexotels.com



FULLY AUTONOMOUS
OFF-GRID
SOLAR-POWERED
SOLUTIONS



042

TYPE



NAME **FLEXSOL SOLUTIONS**

PRODUCT Fully autonomous, off-grid solar-powered lighting and communication solutions. Can help restore the basic infrastructure on Saint Martin quickly and in a sustainable way, whilst at the same time making the island more resilient to future natural disasters.

PLUS Range of solar-products all using the flexible solarpanels (light poles, rooftiles etc.)

WEBSITE www.flexsolsolutions.com



043



TYPE



NAME **FLYABILITY**

PRODUCT Flyability is the manufacturer of the collision proof drone Elios. Protected by a decoupled cage, the flying robot can evolve in very tough environment, usually indoors. Inspecting complex, encumbered sites is in the DNA of Elios. Deployed after the Mexico earthquake to safely and efficiently assess the situation of inaccessible damaged structures, Elios represents a solid ally for the reconstruction of Saint-Martin.

PLUS Tested product in disaster areas.

WEBSITE www.flyability.com



044



TYPE



NAME **FORNELIA LTD**

PRODUCT Efficient solar ovens. We can offer portable models 1200 ml volume from 100 Euros to 5000 ml at 380 Euros and big solar ovens 35 litres at 900 Euros. The can cook at the same time as an ordinary gas/electric oven. The above prices are for quantities 200 pcs and above.

PLUS Can be used as disaster relief, but also after.

WEBSITE www.fornelia.com



045



TYPE



NAME **GEODESIGN HUB PVT. LTD.**

PRODUCT Offer for a one-day geodesign workshop that will investigate the development of rehabilitation strategies post-disaster and also building a long-term resilience strategy for mitigating the risk of future disasters. They plan to host 30-35 professionals from the city office, water board, river authority, civil protection and urban development ministries and also selected citizen groups for a hands-on one-day workshop.

PLUS Good preparation for future hurricanes for local government and aid organisations.

WEBSITE www.geodesignhub.com



046



TYPE



NAME **GOSUN STOVES**

PRODUCT Solar Cooker

PLUS More luxury product but could be useful in first period after hurricane to provide cooking material.

WEBSITE www.gosunstove.com



047



TYPE

NAME GRH CONSTRUCTION PANELS

PRODUCT Through the use of innovative and proprietary technology they produce composite structural insulated panels and building systems that are easy to use and are ecologically responsible. GRH's building products meet or exceed all EU and US building standards. Can start immediate production of panels in Europe to be shipped to St. Martin, or can set up a small factory in St. Martin and start production within 9-12 weeks. Training for new employees would be provided within this time frame.

PLUS Can be produced locally. Sustainable building material, combination possible with solar panels.

WEBSITE www.grhintl.com

BUILDING SYSTEMS
THAT ARE EASY TO USE
AND ECOLOGICALLY
RESPONSIBLE





048

TYPE



NAME HACK THE PLANET

PRODUCT Autonomous drone. For rescue purposes and rebuilding purposes. The drone can provide the necessary data.

PLUS Tested and ready to use.

WEBSITE www.hack-the-planet.io



049

TYPE



NAME HEEL HOLLAND DEELT

PRODUCT Website and app to share tools, equipment etc. To recover Sint-Maarten collaborating and co-operating is very important. That's what the sharing economy is all about as well, which can contribute to the above mentioned goal.

PLUS Website already exists and is easily made compliant for Sint Maarten.

WEBSITE www.heelnederlanddeelt.nl



050



TYPE



NAME **HELIAC**

PRODUCT Off the grid solar cooking system. Efficient and accessible ‘Solar Foil’ product. Besides getting electricity the foil can be used for solar cooking and hot water for taking warm shower.

PLUS Easy to store product for disaster relief.

WEBSITE www.heliac.dk



051



TYPE



NAME **HOLOBUILDER INC**

PRODUCT 360° construction documentation solution. Can support the rebuilding with tracking progress and communicate the progress that is being made to every stakeholder around the world. Having a good visual documentation of the rebuilding will be critical to ask for insurance claims. Being able to send updates to stakeholders

that have invested in the rebuilding will also increase the likely hood of more investment as the investors can see the progress

PLUS A tool for all the stakeholders to monitor progress can reassure governments that money is well spent.

WEBSITE www.holobuilder.com



052

THE GLOBAL
EMERGENCY
ROSTER FOR
HUMANITARIAN
RESPONDERS.

TYPE



NAME **HUMAN SURGE**

PLUS Are working together with Red Cross Germany, Cordaid etc.

WEBSITE www.humansurge.org/en



053



TYPE



NAME **IMERSO AS**

PRODUCT Imerso’s app allows turning any real-world space into a 1:1 3D model (with real dimensions) in seconds using a smartphone, as an easy-to-use solution for job-site documentation in construction and renovation projects. In other words, a way to bring the job-site back to the office. Imerso scans of the field can be created and shared at a high frequency. These serve as the basis for project planning, so that the multiple teams involved in the project can accurately estimate equipment, material, and man-power needs for each stage - even when working remotely.

PLUS Projectmanagement tool.

WEBSITE www.imerso.com



054



TYPE



NAME INFINITE FINGERS GmbH

PRODUCT Solutions to monitor and control Off-Grid power systems. We are also involved in a solar powered seawater desalination project (Pilot). These systems can provide top quality drinking water together with power and require no local experts.

PLUS Combination with off-grid power solutions. No local expertise needed.

WEBSITE www.infinitefingers.com



055



TYPE



NAME INNOGIEAPS

PRODUCT Solar roof solution can provide new roofs and electricity. The Innogie roof proves that the beauty lies in the simplicity - not a solar cell that is placed on top of an existing roof. In the Innogie concept, the electricity is produced by the roof itself.

PLUS Can be easily integrated with new building projects.

WEBSITE www.innogie.dk



056



TYPE



NAME IPSUM

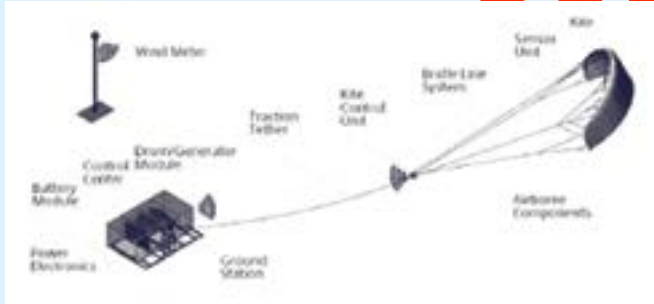
PRODUCT A web & mobile platform to manage and control construction projects, working with many construction companies in Latin America in all kind of projects. They are also really interested in supporting social projects, which is why we're helping a company in Haiti, and would be glad to give licenses of the platform for free to construction companies helping rebuild Saint-Martin.

PLUS Free offer to use platform for construction companies to better manage their projects. Proven technology.

WEBSITE www.ipsumapp.co



057



TYPE



NAME KITEPOWER

PRODUCT Our solution are a mobile (airborne) wind energy systems (20kW-100kW).

PLUS Spin off TU Delft. Product is tested and ready to be implemented. Hurricane proof energy solution.

WEBSITE www.kitepower.nl





058

TYPE



NAME **LINC.WORLD**

PRODUCT Software infrastructure for rapid, low-cost deployment of smart-grids. Has recently completed testing of Linc's real-time energy sharing system with EDF Labs in France, and can facilitate complete integration of roof-top photovoltaics, distributed storage and other network assets with 99.9% uptime and accuracy.

WEBSITE **www.linc.world**



INTEGRATED
SOLUTIONS WITH
HOUSING AND
ENERGY ON
BIODEGRADABLE
WASTE



059

TYPE

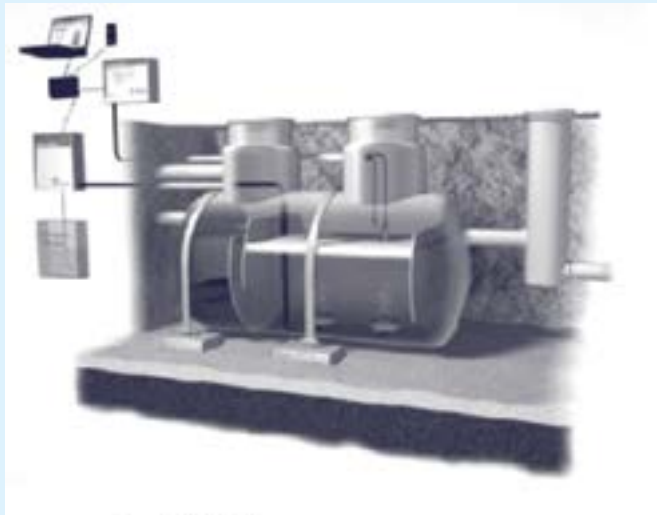


NAME **LIVE CLEAN ENERGY**

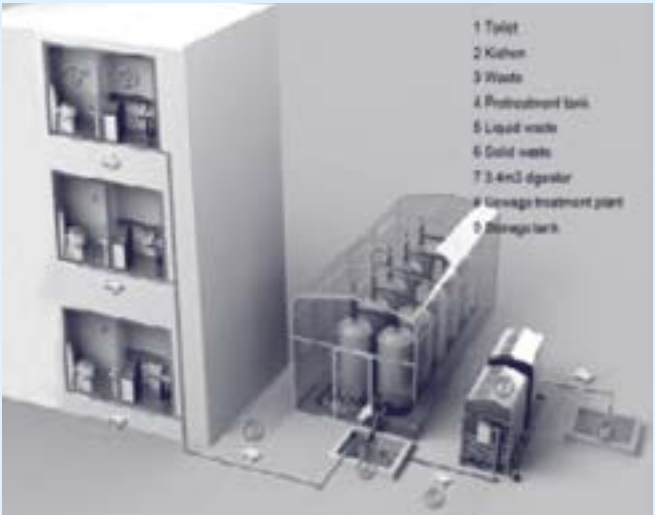
PRODUCT Waste to energy system. They are proposing low cost housing development of prefab houses they are already implementing in Zambia. With the housing they would then install a waste to energy systems that has won numerous awards. Each home will have rain water harvesting system fitted to improve water utilization hence split the lines for domestic chores

PLUS Integrated solutions with housing and energy on biodegradable waste. Have experience in Zambia.

WEBSITE **www.KuremaAfrica.com**



FOR INDIVIDUAL HOME



FOR COMMUNAL HOUSING UNIT



060



TYPE



NAME LOCAL WISE

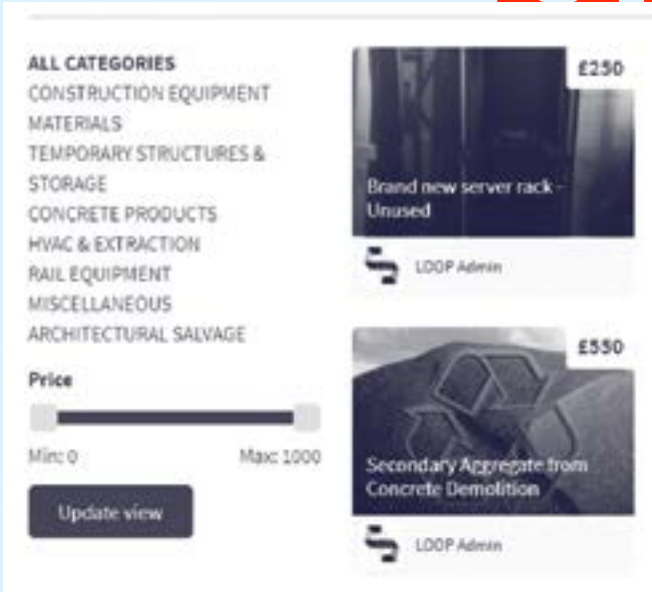
PRODUCT Waterfree portable toilet that can be used in disaster relief. Waste can be used in biogas production.

PLUS Temporary system, tested at festivals.

WEBSITE www.localwise.nl



061



TYPE



NAME LOOP

PRODUCT Marketplace for used materials and equipment. Can be used to aggregate useful materials and equipment which is surplus to its owners and direct it towards the project at St. Martin.

PLUS Can be used to get second hand equipment into Sint Maarten, but also as a marketplace between inhabitants.

WEBSITE www.loop-hub.co.uk



062



TYPE



NAME MARCO BRUIJNES ARCHITECTEN

PRODUCT Container-house, composed of 2 containers and a middle section. Building materials can be stored in the container during transport.

PLUS Can be used as temporary or permanent housingsolution.

WEBSITE www.marcobruijnes.nl



063



TYPE



NAME MYLOC AB

PRODUCT Myloc has developed a cloud service logistic solution (currently with many thousand users) that can simplify and facilitate co-ordination and collaboration between involved parties & companies. The cloud solution is fully scalable and works independently or integrated with other systems. Access to internet may be limited in areas and over time. Our solution has a unique SMS-interface that allows users without internet access.

PLUS Tool to facilitate logistic processes when internet acces is not available

WEBSITE www.myloc.se



064

Nanogence

TYPE



NAME **NANOGENCE**

PRODUCT Additive for concrete. Synthetic nanomaterial that is developed for the construction sector to cut down the cost, increase the durability and reduce the carbon footprint by optimized usage of cement/concrete.

PLUS Innovative product that can be used by builders. Early stage.

WEBSITE www.giatecscientific.com/not-categorized/all-in-one-concrete-mix-additive-simplifying-concrete-preparation/



065



TYPE



NAME **NETICS**

PRODUCT Building material. Legoblocks made out of dredged sediment. Lowtech, can be locally produced.

PLUS More mature innovative company in coastal management and building with nature.

WEBSITE www.netics.nl



066



TYPE



NAME **NEW MARBLE**

PRODUCT New Marble tiles made from old plastic bottles. They use local waste and make new certified building materials. Local waste, local jobs, local product.

PLUS Tiles can be produced locally. Combination of waste and building solution, that at the same time can offer local jobs.

WEBSITE www.newmarble.nl



067



TYPE

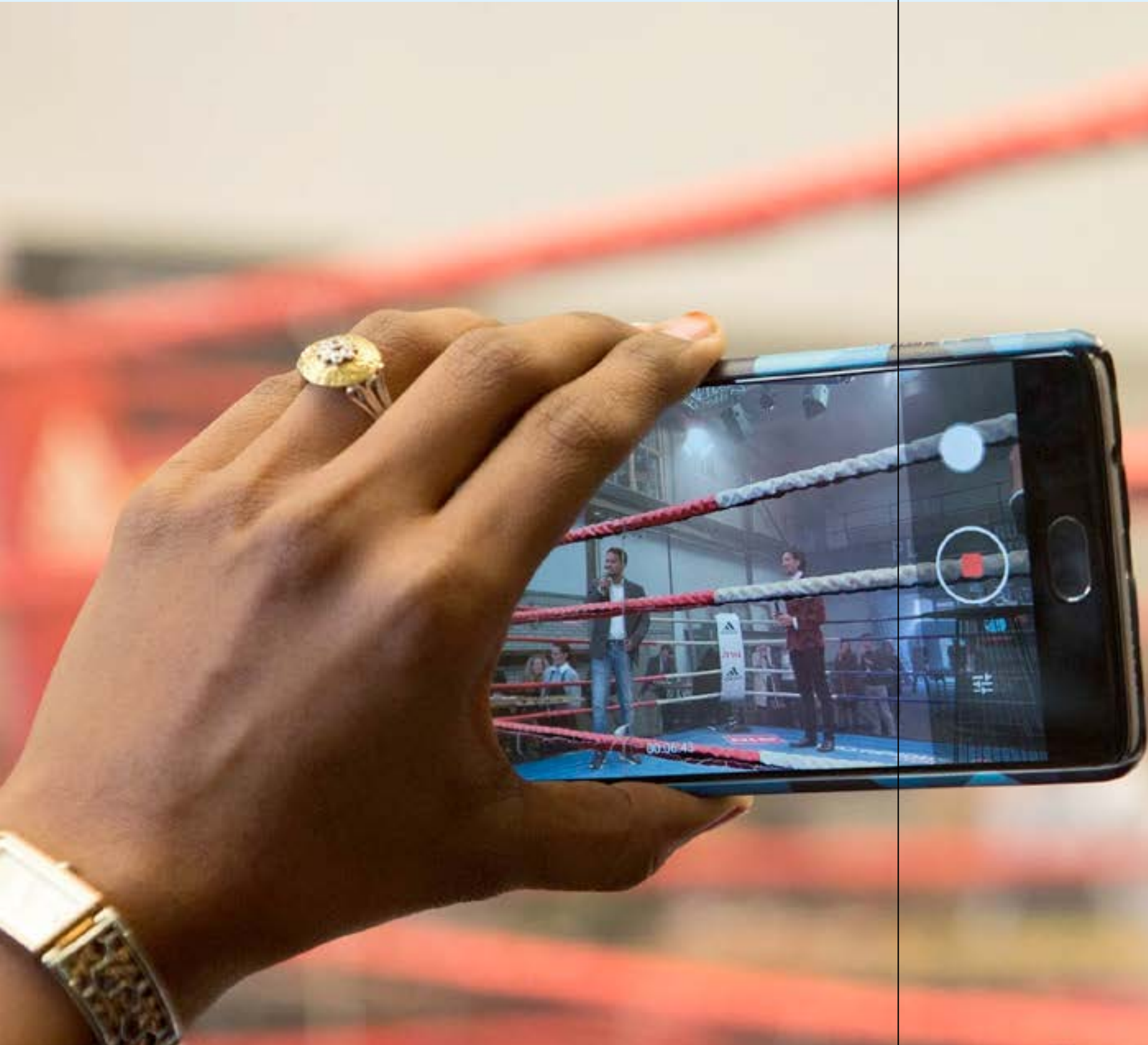


NAME **NEWGREENTEC GmbH**

PRODUCT EnergyTower®. Is designed to generate ecological electric power for homes, clinics, schools or SME's in a short time, at low installation cost and on small ground area. It does not need any civil work nor expert skills and no special know how to install.

PLUS Portable energy solution for energy directly after hurricane. (disaster relief solution)

WEBSITE www.newgreentec.com





068



TYPE

NAME **NOSTROMO**

PRODUCT Cost-effective, clean and safe energy storage system, consist of water. It's an ICE thermal energy storage system which enables to stabilize electricity supply chain by permanent load shift where there are commercial chillers deployed (usually in hotels etc.)

PLUS Usable in hotels

WEBSITE www.nostromo.energy



069



TYPE

NAME **O'SOL**

PRODUCT Mobile solar-energy system. Inspired from the space industry, our all-in-one photovoltaic generators are fully autonomous and can be interconnected to create a smart grid in minutes. The generators can deploy and track the sun throughout the day and automatically fold back at night or bad weather conditions.

PLUS Early stage. Hurricane proof (mobile system)

WEBSITE www.osol.fr



070



TYPE

NAME **OCTOPI**

PRODUCT Software service; a product that will help the port better keep track of their inventory, track Key Performance Indicators, send cargo data to the shipping lines, and help them be more productive. Product has been up and running in 1 Caribbean port already (Haiti) and one port in Florida. Solution can be implemented in less than 6 months.

WEBSITE www.cetuslabs.com



071



TYPE

NAME **OFF GRID BOX**

PRODUCT Off the grid container based unit can provide solar energy (through battery packs) and purified water to families that are affected by natural disasters and (temporarily) lack electricity and clean water.

PLUS Sustainable disaster relief solution, possible to store on the island in advance. Can be used to supply energy and drinking water during rebuilding of infrastructure. Experienced team.

WEBSITE www.offgridbox.com



072



TYPE



NAME **PARCIFY**

PRODUCT Parcify normally does last mile deliveries by bike for online shoppers. Sint Maarten can use our platform and technology/apps to get support shipments to the place they are needed.

Parcify's uniciteit bestaat uit de geolocatie technologie gecombineerd met een innovatief 'crowd-logistics' platform dat de voorspelbaarheid van een bestelling aan de eindconsument mogelijk maakt.

WEBSITE **www.parcify.com**



073



TYPE



NAME **PASSIVDOM**

PRODUCT Autonomous Off-the-Grid 3D-Printed Mobile Smart House. PassivDom is the off-grid house that uses only solar energy for all inhabitants' needs: climate control (heating and cooling), water generation from air humidity, air quality and carbon dioxide control. House produces PV electricity for all household appliances by itself.

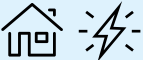
PLUS Fully equipped houses. Not clear if they are being produced yet.

WEBSITE **www.passivdom.com**

074



TYPE



NAME **PODUHVAT DOO**

PRODUCT VETAR wind turbines are small but very powerful wind turbines which can be placed safely in any urban environment even on vehicles for immediate renewable energy supply both in normal and emergency conditions. VETRODOM is another solution. It presents specially designed housing in order to increase performance of single VETAR 15 wind turbine placed on it but in the same to be able to resist even the strongest, hurricanes etc.

PLUS Combination of housing and energy solution

WEBSITE **www.poduhvat.com**



WIND TURBINES CAN BE
PLACED ON VEHICLES
FOR IMMEDIATE
RENEWABLE
ENERGY SUPPLY

PHOTOVOLTAIC
GLASS PANELS
TO REBUILD
ROOFS WHILE
GENERATING
FREE
RENEWABLE
ENERGY



075

TYPE



NAME **POLYCARE**

PRODUCT Building blocks. PolyCare makes it possible to locally produce durable polymer concrete building blocks using sand and polymer resin. These reusable bricks are used to build temporary or long-term structures like homes, schools or medical centers.

PLUS Can be produced locally.

WEBSITE www.poly-care.de



076

TYPE



NAME **POLYSOLAR Ltd**

PRODUCT Photovoltaic glass panels. Solar PV glass to re-build roofs and windows while generating free renewable energy

PLUS Building material that can be integrated in other projects. Tested and in production.

WEBSITE www.polysolar.co.uk



077



TYPE

NAME **POWERWINDOW (Physee)**

PRODUCT Windows converting sunlight into energy

Can be integrated in new buildings. Awardwinning TU Delft startup with some experience already.

WEBSITE www.physee.eu/products/



078



TYPE

NAME **PURASOL**

PRODUCT Complete grid tied solar + storage system on every house. It will result on stabilizing the grid if present; cutting price of electricity bill in normal times (in time of no-disaster); and to offer a complete backup solution in case of grid outage. Each house will be 100% independent. If only 1 house of the whole neighborhood stand still after a natural disaster, it will be enough to provide basic energy need for light and/or water purification.

PLUS Company from the region. Familiar with hurricane problems.

WEBSITE www.purasol.co.cr






THE FASTEST ASSEMBLED HOUSING CONTAINER IN THE WORLD



079

TYPE 

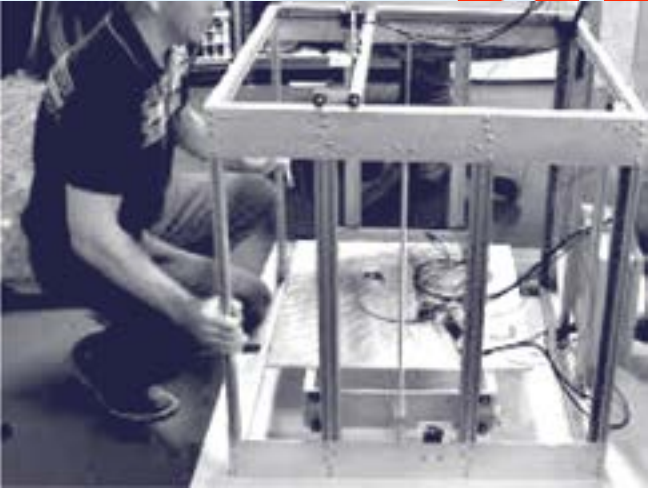


NAME	QUICK SPACE
PRODUCT	Quick space solution. The fastest assembled housing container in the world. One shipping container can transport 7 housing containers.
PLUS	Fast temporary solution for housing and office-space.
WEBSITE	www.intlog.fi





080



TYPE



NAME **RE3D.ORG**

PRODUCT Gigabot 3D printer. Currently some of the team is living in San Juan as re:3D (re3d.org), opened an office in Porto Rico last August to help support job creation on the island with a large-scale Gigabot 3D printer, which will be modified.

PLUS Focused on job creation on the island. Possible combination with incubator?

WEBSITE **www.re3d.org**



081



TYPE



made by thermoplastic materials. Very resistant. The thermoplastic material that is used is 100% recyclable, very cheap and they can produce a large number of turbine in a very short time. The Turbine works better in synergy with photovoltaic panels. PV + VAWT Rotoby = electrical autonomy.

PLUS Fairly cheap windturbine. Combination with recycling plastic possible?

WEBSITE **www.rotoby.com**

NAME **ROTOBY Sp. z o.o**

PRODUCT A micro (1kW) wind turbine (VAWT). Cost effective (less then 2000 euro)

PV
+
VAWT
ROTOBY
=

ELECTRICAL
AUTONOMY



082



TYPE

NAME **ROTTERZWAM PADDENSTOELEN**

PRODUCT Mushroom growing kit on coffee waste. Founders of Blue City Rotterdam, a co-working space for startups in business.

PLUS Can teach locals to grow mushrooms and create more entrepreneurship on the island while using waste.

WEBSITE www.rotterzwam.nl



083



TYPE

NAME **SALT FARM TEXEL**

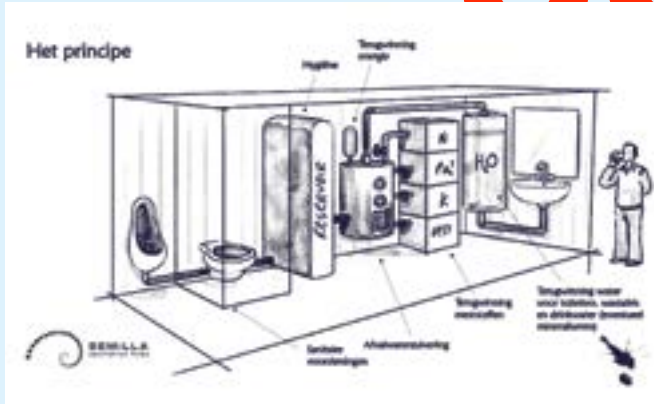
PRODUCT Salt tolerant farming. By evaluating the salt tolerance of conventional crops and halophytes, performing large-scale screening of possible salt tolerant cultivars, and develop saline agricultural practices. We also develop specific fertilizers, strategies to cope with the physical-chemical-biological soil properties, irrigation and drainage.

PLUS Possibility to add new economic activities to the island.

WEBSITE www.saltfarmtexel.com



084



TYPE

NAME **SEMILLA SANITATION HUBS**

PRODUCT Sanitation unit that can clean wastewater on site to drinking water.

PLUS Off the grid system, sustainable, usable for hotels, schools etc. System is almost ready to be tested.

WEBSITE www.ipstar.io/projects/2e081d57/0/semilla-sanitation-hubs



085



TYPE

NAME **SHARELUTIONS: TOOLLIBRARY**

PRODUCT We propose to send 40ft containers with highquality tools for rebuilding. This container wil act as an Toolli-brary. People can become a member and get access to high quality tools for a small membership and rental fee.

PLUS Small company, but interesting idea. Could maybe be combined with incubator space.

WEBSITE www.sharelutions.nl



086



TYPE



NAME SHAROOD APP

PRODUCT An app to immediately notify a person's network when they have food/are cooking (including for how many there is food, where and when). The network can then "book" a place to that meal and have an assured meal (It uses a person's trusted network or community, such as their church).

PLUS

WEBSITE Could be used to create a 'home-cooked-meal' service for tourists?

www.sharoodapp.com



087



TYPE



NAME SMART GREEN BATTERIES

PRODUCT Micro grid from 400 kW AC power with:
1 - solar PV in maritime container,
2 - biofuel genset in maritime container
3 - switch gear power conversion control systems + storage in maritime container,

PLUS Fast off the grid solution for power. Unsure if product is already on the market

WEBSITE www.smartgreencharge.energy/offline/



088



TYPE



NAME SOLARKIOSK

PRODUCT The E-HUBB is a smart energy and smart shelter solution combined into a flat packed, kit of parts that is easy to install and operate. The E-HUBB can be used as a simple energy and communications hub or can grow into solar powered infrastructure and generate additional energy to eventually become the nucleus of a local decentralized mini-grid network.

PLUS Very experienced startup. Active in 11 countries, 230 units placed. Combination of solar energy and stimulating entrepreneurship.

WEBSITE www.solarkiosk.eu



089



TYPE



NAME SOLARTECHNO EUROPE BV

PRODUCT Solar off grid system. Turnkey solution. They can ship in 45 days from order a 20, 30 or 40 foot container with a pre-assembled off grid system able to provide 45, 60 75 kVA, with lithium battery storage in multiples of 16 kWh (i.e. 16, 32.....128 kWh).

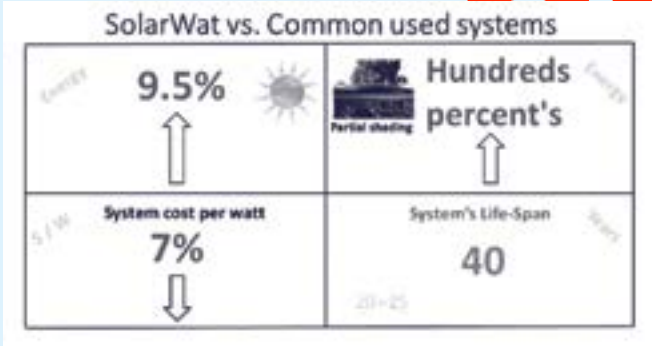
PLUS Established company, turnkey solution.

WEBSITE www.solartechno.com





090



TYPE ⚡

NAME **SOLARWAT Ltd.**

PRODUCT SolarWat improves performance at all PV system levels: solar cells, panels, strings and the central inverter of the system. SolarWat provides 9.5% more energy under regular sunshine conditions and hundreds of percent more under partial shading condition. Moreover, the SolarWat technology allows decrease PV systems cost per watt in 7.5% when system lifespan is doubled compared to commonly used and optimized PV technology.

WEBSITE **www.solarwat.co.il**



091



TYPE ⚡

installation system with the THE-AC-25 requires a source of heat. There are two sustainable options: one is to use solar heat, the other is to use waste heat.

Experienced team of scientist and entrepreneurs, with new technology that can be integrated in new buildings.

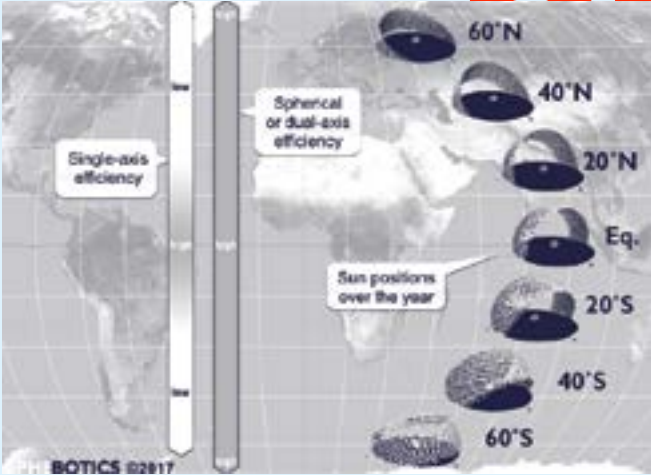
WEBSITE **www.soundenergy.nl**

NAME **SoundEnergy**

PRODUCT Cooling with wasteheat or solar heat, no electricity needed The core function of the THEAC-25 is converting heat into cold. This means that any



092



TYPE ⚡

NAME **SPHEBOTICS**

PRODUCT Solar tracker that increases energy production of solar panels. It's first advantage is to lower the total cost of solar system for a given annual production. The second advantage is that it can be installed anywhere: rough terrain, rooftop, wall. And trans-portable solar energy generator for crisis situation. It can be easily stored and quickly deployed. It's a high performance fully autonomous 1,2kW station.

PLUS Participated in Climate KIC program in 2017.

WEBSITE **www.sphebotics.com**

IT CAN BE INSTALLED ANYWHERE: ROUGH TERRAIN, ROOFTOP OR WALL.



093



TYPE

NAME Ssula

PRODUCT Ssula’s online learning platform for primary school children contains the full Netherlands school curriculum ("kerndoelen") in a playful gamified format that makes it fun for children to learn anywhere anytime. Are willing to donate Ssula accounts.

PLUS Mature startup that offers accounts for free. Could be a temporary solution until the schools are fully functioning again. (downside: in Dutch and laptops necessary)

WEBSITE www.ssula.nl



094

USC’S MISSION IS TO FOSTER A GREATER SENSE OF UNITY AMONG SINT MAARTEN STUDENTS AND YOUNG PROFESSIONALS IN THE NETHERLANDS AND ON SINT MAARTEN, AND TO TRANSLATE THIS DYNAMIC INTO STIMULATING CHANGE THAT IS BENEFICIAL AND RELATED TO THE UNIQUE POSITION WE HOLD WITHIN THE KINGDOM OF THE NETHERLANDS.

TYPE

NAME STICHTING UNIFIED SINT MAARTEN

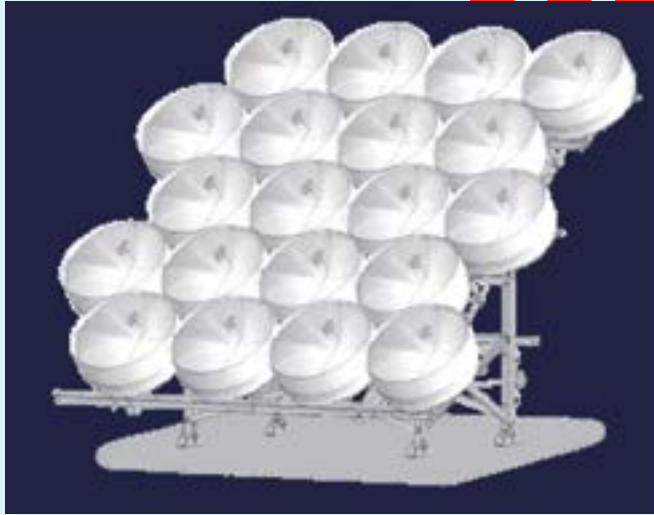
PRODUCT Organising think-tanks with students and young professionals, of St.Maarten decent, in different fields of expertise. We’re organising our 4th forum set for Nov 11th 2017 where solutions for problems on St.Maarten is always the topic.

PLUS Local knowledge and roots. Possible partners for creating a co-working / incubator on the island

www.uscfoundation.com



095



TYPE

NAME SUNCYCLE

PRODUCT Dutch stand alone solar power unit which makes both heat (hot water) and power at the same time. 3 times more power than PV on same surface. Were finalist at the Dutch Defence Innovation Competition this year, production has just started in Brainport. The SunCycle SUS energizing solar power system consists of 20 individual units, each combining a rotating prism and mirror. The system is a static system. Only the the prism and mirror rotate when following to capture the UV saturated solar radiation. The patented SunCycle technology converts this radiation and heat into electric and thermal comfort.

PLUS Very innovative product, but ready to start producing.

WEBSITE www.suncycle.nl

3 TIMES MORE
POWER THAN PV
ON SAME SURFACE



096



097



TYPE



- NAME **SUNFLOWER**
- PRODUCT Parasol that can be used as charging point.
- PLUS Interesting product for resorts and hotels to offer clients shade and power. Has been tested at festivals. The Netherlands
- WEBSITE www.innofest.co/cases/kun-je-met-een-parasol-je-telefoon-opladen/

TYPE

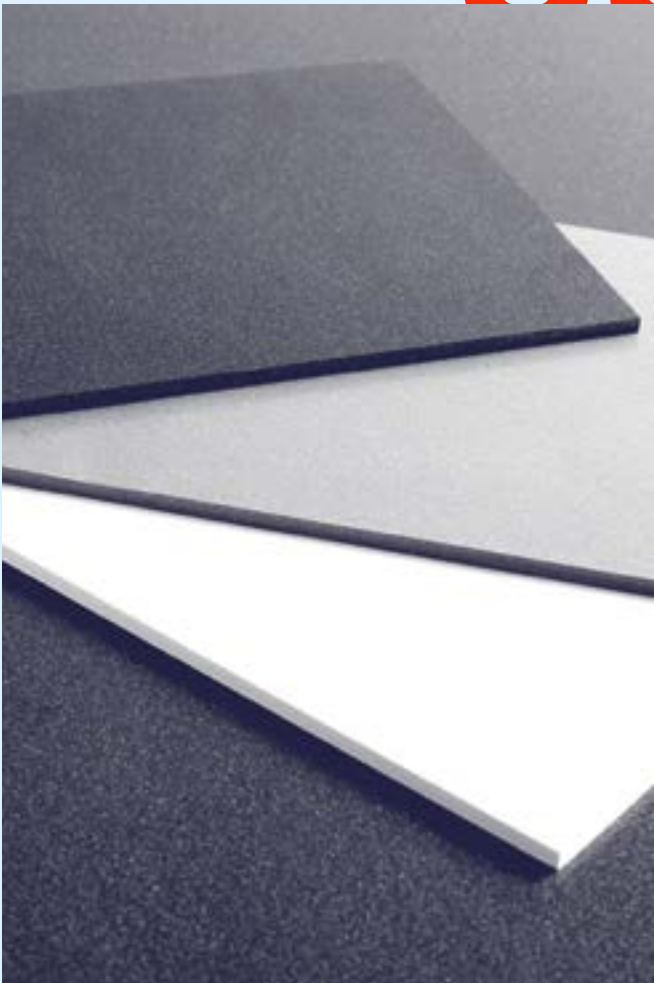


- NAME **SUSTAINER HOMES**
- PRODUCT Smart, sustainable and affordable prefab (modulair) buildings. Off the grid solution.
- PLUS Proven technology, ready to scale.
- WEBSITE www.sustainerhomes.nl



MATERIAL MADE OF QUARTZ AND RECYCLED PET

098



TYPE




- NAME **SUSTONABLE**
- PRODUCT Composite stone material, that is thin, strong and can have all designs wanted. It is made of quartz and recycled PET. After it's lifetime we can take it back and reuse it as a raw material. We produce big slabs that can be used as wall covering or kitchen countertop or other types of countertops.
- PLUS Building material and plastic recycling combined.
- WEBSITE www.sustonable.com



099



TYPE 

NAME **TECNED**

PRODUCT Technology for Energy Conversion the Netherlands.

PLUS Already a distributor for St Martin and Saba.

WEBSITE **www.tecned.com**



100



TYPE 

NAME **THE LEVEL MARKET**

PRODUCT The Level Market is the world's most trusted humanitarian marketplace for disaster relief and poverty alleviation. For the rebuilding of Saint Martin, using The Level Market would allow the Dutch Red Cross (and any others involved) to streamline and speed up procurement, saving time and money, and, crucially, getting relief items to people who need them. With The Level Market you can track all disaster relief efforts from initial inquiry of products all the way through to tracking the shipment, on one platform.

PLUS Can help to streamline efforts.

WEBSITE **www.thelevelmarket.com**





101

TYPE



NAME THE WASTE TRANSFORMERS

PRODUCT The Waste Transformers create decentralized, nutrient and energy hubs by converting residual waste streams into energy, whilst recovering (on-site) the natural resources and water in the waste.

PLUS Tested and ready to use. Have already realised multiple plants abroad. Good solution for hotels and cruise ships.

WEBSITE www.thewastetransformers.com



102

TYPE



NAME TINYTIM HOUSING

PRODUCT Portable off the grid housing solutions. Made out of biobased materials. Tiny Tim has a sustainable solution for water, heat and electricity.

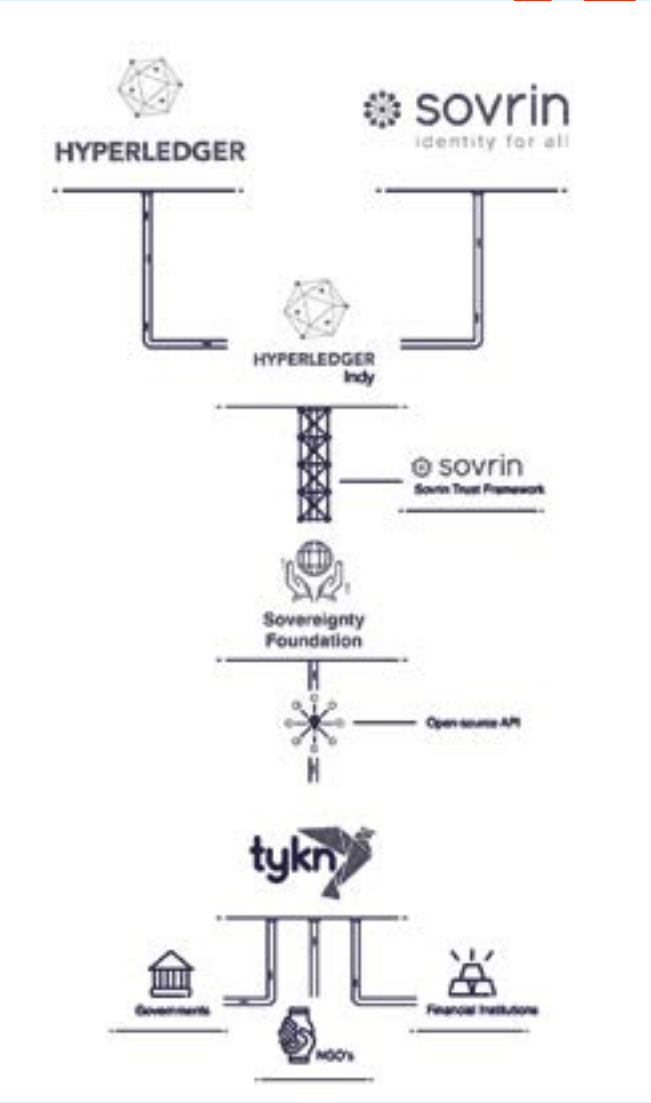
PLUS Integrated solution. Prices between € 14.000- € 65.000

WEBSITE www.tinytimhouse.nl



103

TYPE



NAME TYKN TECH

PRODUCT Natural disasters disrupt vital record sharing and identity management. We like to donate our tech stack for identity management. Tykn leverages blockchain technology to build electronic identity, authentication and trust services (eIDAS) tools for governments, financial institutions and NGOs, ensuring full compliance with the General Data Protection Regulations (GDPR) to be imposed by Q2 of 2018.

PLUS Blockchain can offer a solution for non-registered inhabitants. Founder is a former refugee himself.

WEBSITE www.tykn.tech

BLOCKCHAIN
CAN OFFER
A SOLUTION
FOR NON-
REGISTERED
INHABITANTS



104



TYPE

NAME **UNEARTH**

PRODUCT Mapping Tool. Uneath is the world’s most complete progress documentation system where all information is tracked by time & place. With Uneath, teams will be able to establish baseline conditions on entire site territories, turn blueprints into actual working maps, share all manner of project information in real-time (photos, 360 photos, videos, documents), and collaboration with any stakeholders anywhere, anytime.

PLUS

WEBSITE

Tool can help speed up recovery and collaboration between parties.

www.uneearthlabs.com



105



TYPE

NAME **VERDRAAID GOED: BEAT THE BAG**

PRODUCT Bags (and other items) made from waste materials. For instance the tarps that were distributed after the hurricane.

PLUS Can provide local workshops to inhabitants and stimulate entrepreneurship while using waste.

WEBSITE www.beatthebag.com



106



TYPE

NAME **VILLAGEPUMP BV**

PLUS The VILLAGEPUMP 500 yields at least 500 litres of fully purified drinking water an hour, in compliance with World Health Organisation(WHO) standards for micro-biological content(bacteria, viruses), TSS and NTU. Can be stored on the island. Ready to be implemented.

WEBSITE www.villagepump.org

500 LITRES OF
PURIFIED DRINKING
WATER IN 1 HOUR



107



TYPE

NAME	VOLTA ENERGY
PRODUCT	A (mobile) green generator powered by solar energy and battery capacity. Output around: 2 Kil watts and no need for external power supplies, the batteries will only be used to store the solar energy.
PLUS	Very young company and new product. Easy to transport. In need of launching customers.
WEBSITE	www.volta-energy.nl



108



TYPE

NAME	W4P WAVES4POWER
PRODUCT	Wave energy is probably less of an opportunity compared with solar energy in this area, but W4P have together with Siemens a complete energy storing system, using hydrogen, to ensure an even supply of energy from renewable energy sources. That solution could contribute.
PLUS	More experienced company, making use of the natural resources of Sint Maarten.
WEBSITE	www.waves4power.com



109



TYPE

NAME	WATTS BATTERY
PRODUCT	Portable power supply system with ability to connect to solar panels and power generators to provide AC electricity. It is all-in-one solution, with remote control and plug and play scale system, from 1,5kW to 15 kW.
PLUS	Can be connected to any energy source. Plug and play. Handy to have on the island after a hurricane
WEBSITE	www.wattsbattery.com





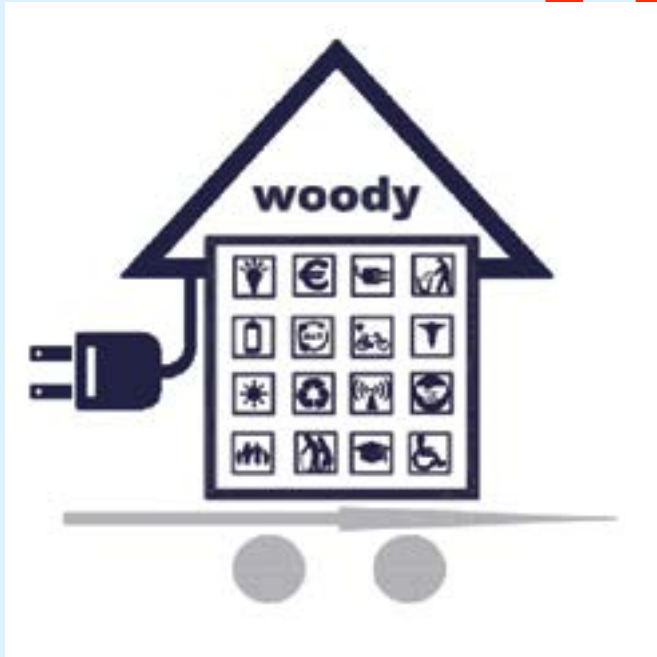
BLOCKCHAIN
\$OLUTION
TO HELP
\$T. MARTIN
DEVELOP A
CASHLESS
\$OCIETY

YONK



110

TYPE



NAME	WOODYSHOUSING
PRODUCT	Fast mobile permanent sustainable housing solution from wood, can assembled and stacked on site, eligible for housing, office, schools, shops... Can support with tools, training, materials... setting up the production site and help people with fast housing.
PLUS	A tested product, ready for scaling up. Fully integrated energysystem. Can provide local jobs on production site.
WEBSITE	www.woodyshousing.com



111

TYPE



NAME	YONK
PRODUCT	Blockchain solution to help Saint Martin develop a cashless society to ensure the aid and support is distributed fairly and even. The system will be built under blockchain network to prevent fraud and increase the productivity.
WEBSITE	www.yonk.io



112



TYPE

NAME YOTTA GREEN

PRODUCT Revolutionary home electricity system that understands what was plugged in, what is its normal behavior and alert of abnormal behavior to increase efficiency, safety, and comfort. The solution replaces the normal switches and outlets with smart ones that require no special infrastructure. The homeowners gain from the reduction in electricity bill and improved safety. The municipality gain from the data of how home electricity systems behave, from the carbon stamp reduction and the improved safely.

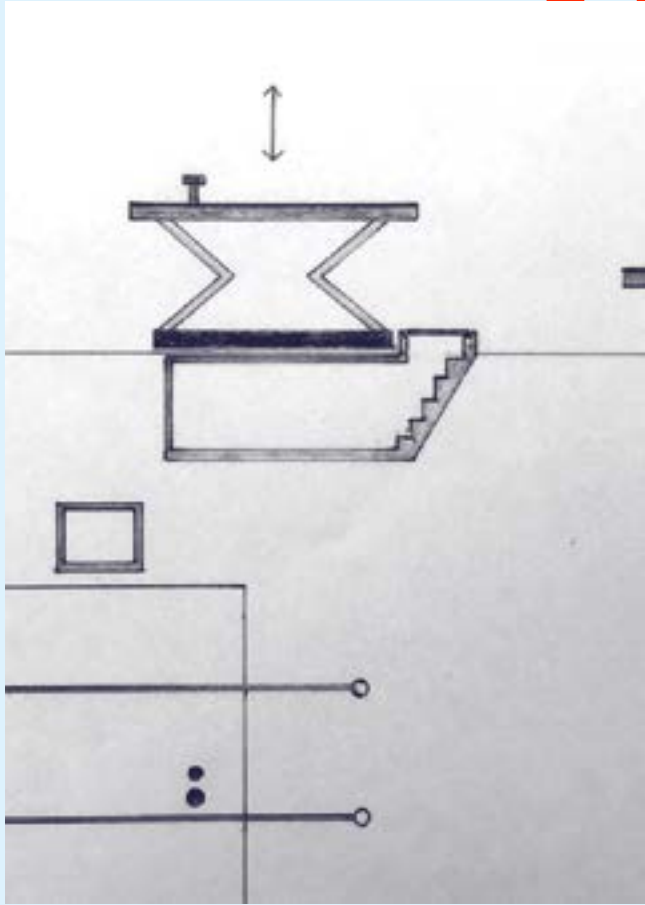
PLUS Can be used in existing and newly build homes

WEBSITE www.yottagreen.com

REVOLUTIONARY ELECTRICITY SYSTEM THAT UNDERSTANDS WHAT IS PLUGGED IN



113



TYPE

NAME YURI DESIGN

PRODUCT Foldable houses with security basements. Not an actual product yet, still in development, but well thought through design.

PLUS Could be in interesting concept to develop further for disaster relief.

WEBSITE www.yd.cmsx1.nl/nl-nl/



ENERGY
SOLUTIONS



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HELIAC
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O'SOL
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ROTOBY SP. Z O.O.
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ACE CLEAN
COOKSTOVE
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ELUM ENERGY
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INNOGIEAPS
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OFF GRID BOX
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SMART GREEN
BATTERIES
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BLUERISE
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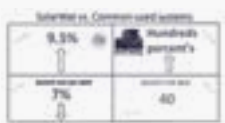
ENERGY ABSORB-
ING BREAKWATER
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ECONOMIC
SOLUTION /
TOURISM



ORGANISING
TOOL



AIDMETRICS/AID-
INNOV
33



TECNED
P. 33



B4AGRO&FOOD
SYSTEMS
33



CONSTRUCT APP
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W4P
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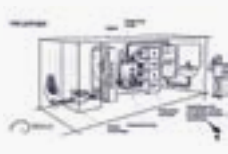
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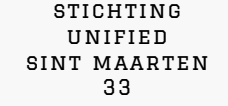
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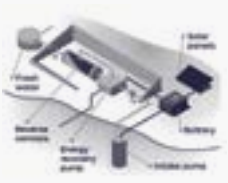
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THE BIDBOOK STARTUP SOLUTIONS FOR SINT MAARTEN IS AN
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