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The United Nations Framework Convention on Climate Change Fourth global dialogue and investment-focused event under the Sharm el-Sheikh mitigation ambition and implementation work programme

Cities: Buildings and Urban systems - Enhancing carbon storage through green and blue infrastructure

4-5 October 2024



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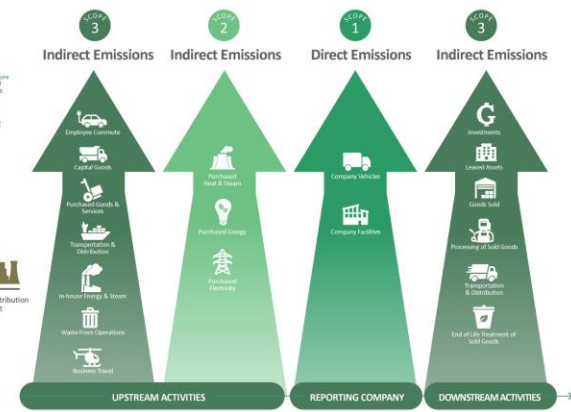
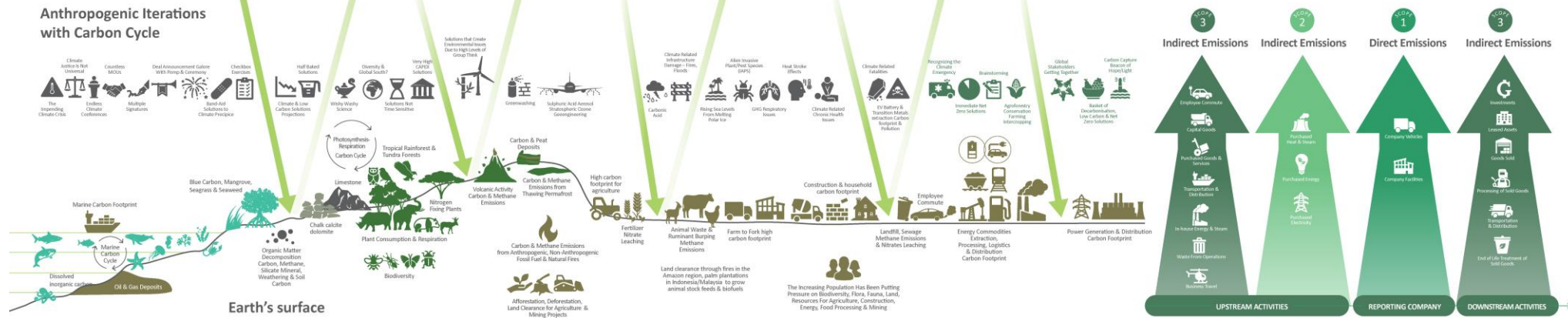
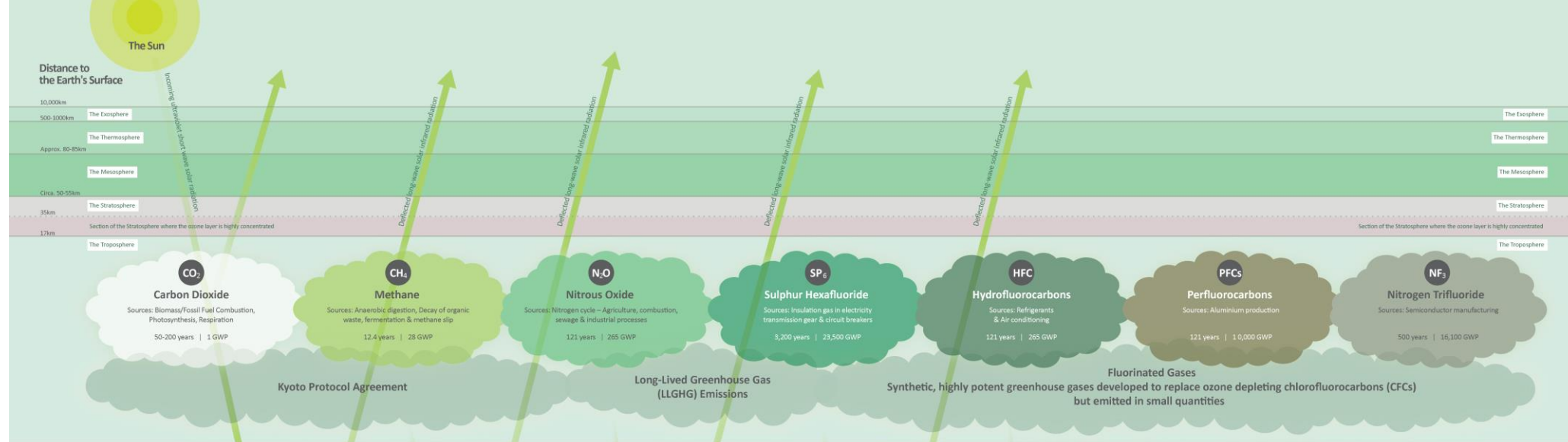
Phillip Sack

Phillip Sack comes from a chequered commodity trading, project management background of circa. 20 years with strong leadership & negotiating skills. Phillip has great experience in the planning & implementation of energy related businesses, i.e. in the refining & mining sector.



Nate Macmillan

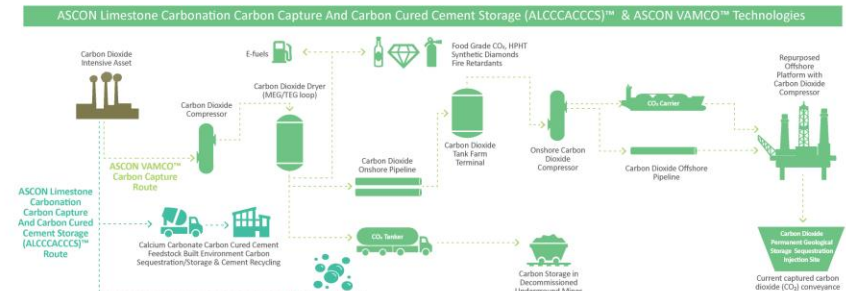
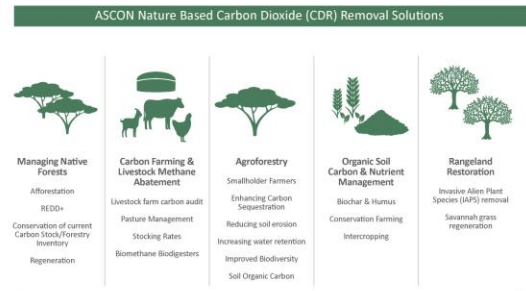
Nate Macmillan has transitioned from roles in the commodity trading, mining, rail, oil & gas and shipping sectors to decarbonisation. Nate's key drivers are constantly exceeding expectations, seeing things differently and challenging industry norms



ASCON Regulatory Emissions Trading Schemes/Systems & Voluntary Credits Marketplace Greenhouse Gas Removal (GGR) Solutions



ASCON Carbon Dioxide Removal Solutions





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Voluntary Carbon Marketplace (VCM) Nature Based Solutions



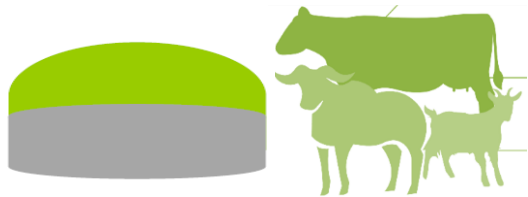
Managing Native Forests

Afforestation

REDD+

*Conservation of current Carbon
Stock/Forestry Inventory*

Regeneration



Livestock & Manure Management

Livestock farm carbon audit

Pasture Management

Stocking Rates

Biogas Biodigesters



Agroforestry

Smallholder Farmers

Enhancing Carbon Sequestration

Reducing soil erosion

Increasing water retention

Improved Biodiversity

Soil Organic Carbon



Organic Soil Carbon & Nutrient Management

Biochar & Humus

Conservation Farming

Intercropping



Degraded Land Restoration

Carbon Farming

Peatland Restoration

*Rangeland Restoration - Invasive
Alien Plant Species (IAPS) removal*

Savannah grass regeneration



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Nature Based Solutions (NBS) for Carbon Dioxide Removal (CDR) Gallery

Mangrove Regeneration



KENYA

Biogas



KENYA



Afforestation, Carbon Farming & Deforestation Mitigation



KENYA



ZAMBIA



REDD+ Reforestation



GHANA



Biogas Digestors



ZIMBABWE



Biomethane



ZIMBABWE



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Ascon Social Community Based **GUD** Cook Stove Package

- At ASCON, our social community biogas based **GUD** cookstove, made mostly with **recycled scrap steel, extruded recycled plastic, recycled cast brass**, solves a sanitation constraint & we strongly believe that durable cook stoves have to be:

Genuine Interventions

*Greenwashing proof
&
Great simplistic design
with minimal maintenance
costs*

Universal

*Universally Acceptable
Standards & fit for purpose
to use on all continents.*

Dignified

*Biogas fuel efficient &
mitigate deforestation
drivers. The Ascon GUD
cookstove is a 2 burner
unit, 4 legged, has biogas
hose & regulator set*





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Captured CO₂ Calcium Carbonate Enhanced Weathering (EW) Applications

Ascon Africa Commonwealth of Nations, Democratic Republic of Congo & Madagascar (CDM) voluntary carbon marketplace (VCM) focus in sub-Saharan Africa until Q4 2024 expansion into Francophone, Lusophone Africa & global



AFOLU

Afforestation

Agroforestry

Carbon Farming

Rangeland Management

REDD+

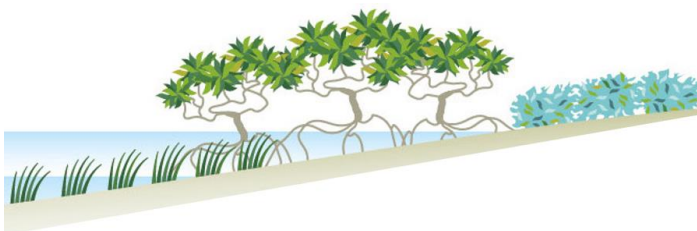


Community Based Carbon Cured Cement

Biogas

Biogas Cookstoves

Biochar, biogas digester digestate & calcium carbonate blended fertiliser

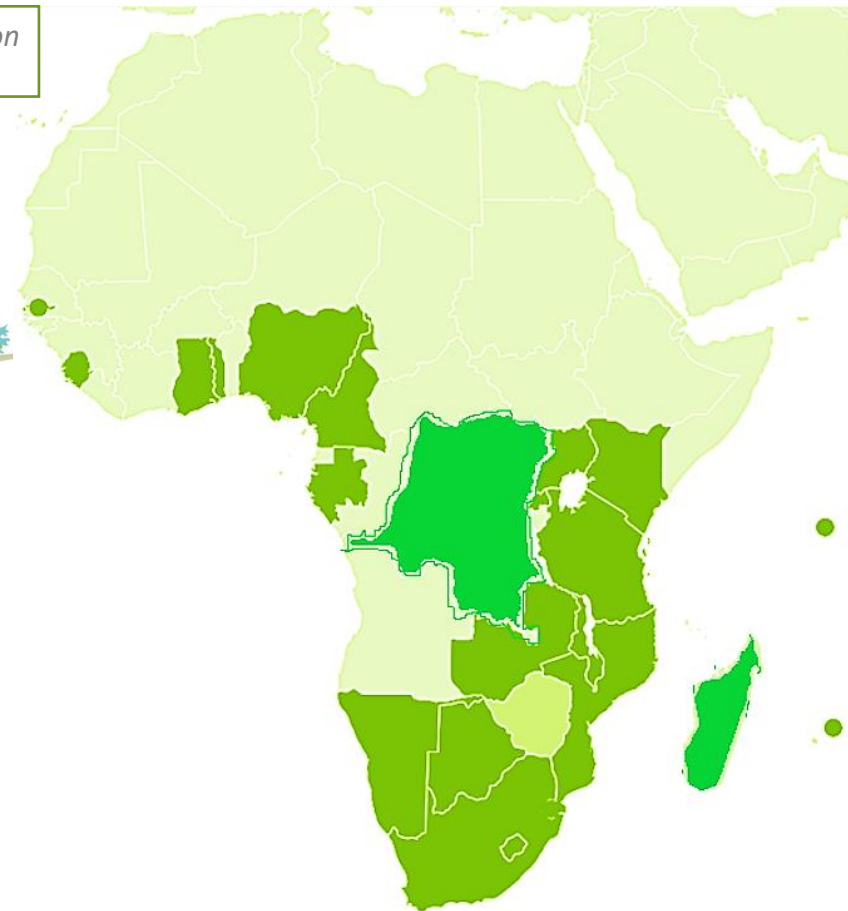


Blue Carbon

Mangroves

Saltmarshes

Seaweed





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Urban Circular Economy & Zero Waste



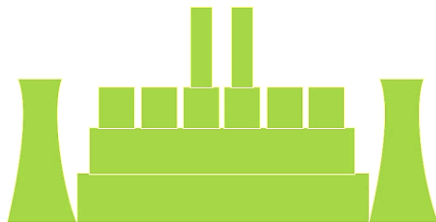
Urban Communities Reimagining
Business As Usual



Paradigm Shift



Waste Reduction



Waste Utilisation



Waste Repurposing



Waste Recovery



Waste Redundancy



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Urban Carbon Sinks





Projected UN SDG Benefits from Urban Biodigesters

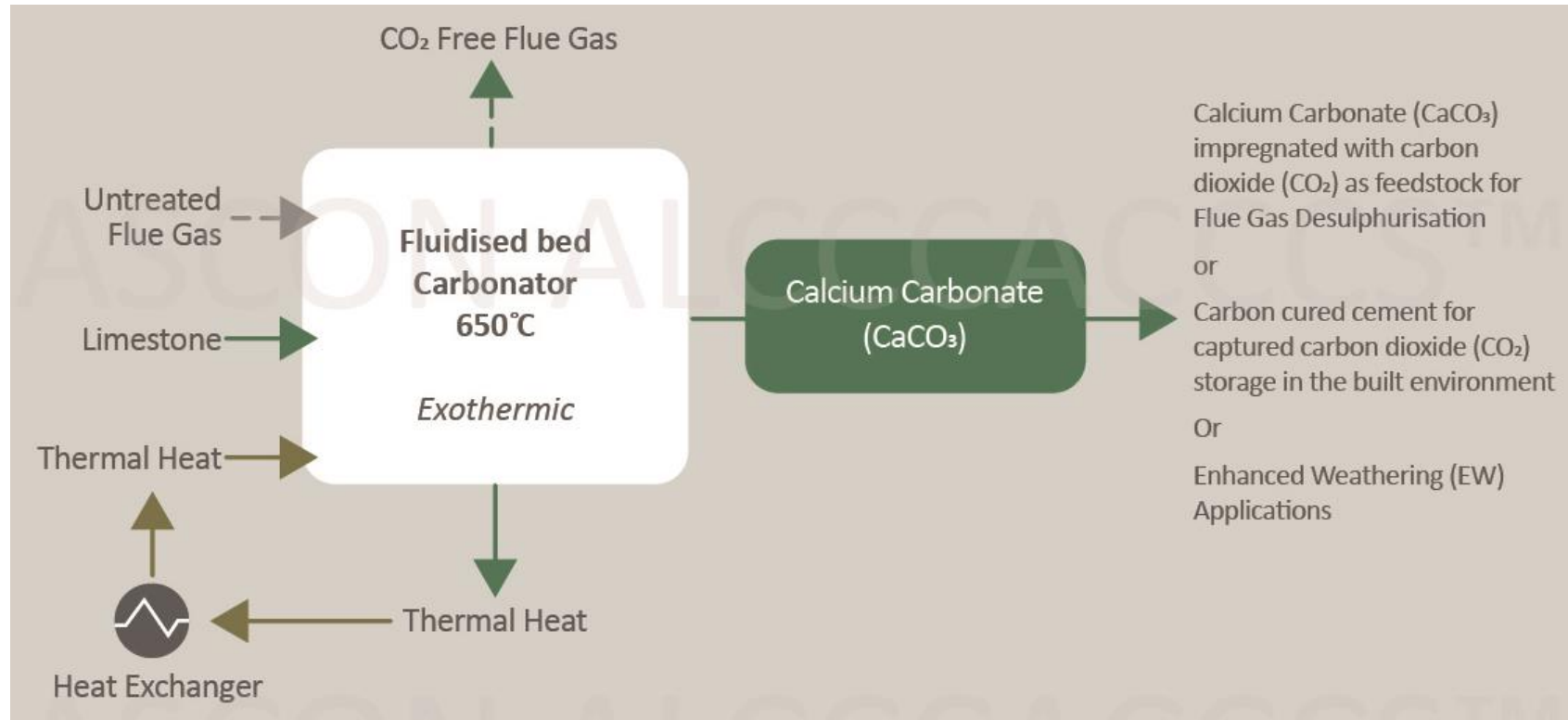


<div>1 NO POVERTY</div> <div></div>		<div>Biodigester per household</div> <div>Income from associated BioLNG, employment, food security, mangrove & forestry nurseries</div>	<div>3 GOOD HEALTH AND WELL-BEING</div> <div></div>	<div>10,000</div> <div>Households with improved nutrition and quality of life</div>	<div>20%</div> <div>Increase in life expectancy with annual health check-ups for all households</div>	<div>100%</div> <div>Upgrades of all health facilities & housing</div>	<div>5</div> <div>Goals, reducing prevalence: HIV Child mortality Premature births Malaria Communicable Diseases</div>	
			<div>4 QUALITY EDUCATION</div> <div></div>	<div>100%</div> <div>Target for all children of school going age to receive tuition & access to schools</div>	<div>2</div> <div>Capacity building, training workshops per month for professional skills development with relevant skills assessment validation & accreditation</div>	<div>5 GENDER EQUALITY</div> <div></div>	<div>50%</div> <div>Women participation & representation</div>	
			<div>6 CLEAN WATER AND SANITATION</div> <div></div>	<div>1</div> <div>Biodigester & well per household</div>	<div>8 DECENT WORK AND ECONOMIC GROWTH</div> <div></div>	<div>10,000</div> <div>New jobs to be created across sectors of agriculture, apiary, BioLNG, construction, eco-tourism, forestry & support services</div>	<div>1200</div> <div>US\$ income per household per month from REDD+ employment, BioLNG, eco-tourism & vegetables sales</div>	<div>100%</div> <div>New build, sustainable housing with off-grid electrical solutions from biogas generators</div>
<div>9 INDUSTRY, INNOVATION AND INFRASTRUCTURE</div> <div></div>	<div>5</div> <div>Uses of biogas generated at every household biodigester, cooking, heating, lighting, power generation & surplus to be compressed for sale</div>	<div>13 CLIMATE ACTION</div> <div></div>	<div>1,000,000</div> <div>Target for tCO2e carbon credit generated using several methodologies</div>	<div>400,000</div> <div>Trees planted per year</div>	<div>15 LIFE ON LAND</div> <div></div>	<div>1,000,000</div> <div>Hectares forest & mangrove reserve conserved</div>	<div>4</div> <div>Slow growing indigenous flora species to be planted</div>	



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Post-Combustion ASCON Limestone Carbonation Carbon Capture And Carbon Cured Cement Storage™ (ALCCCACCCS)™ Technology





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