

WHITE PAPER

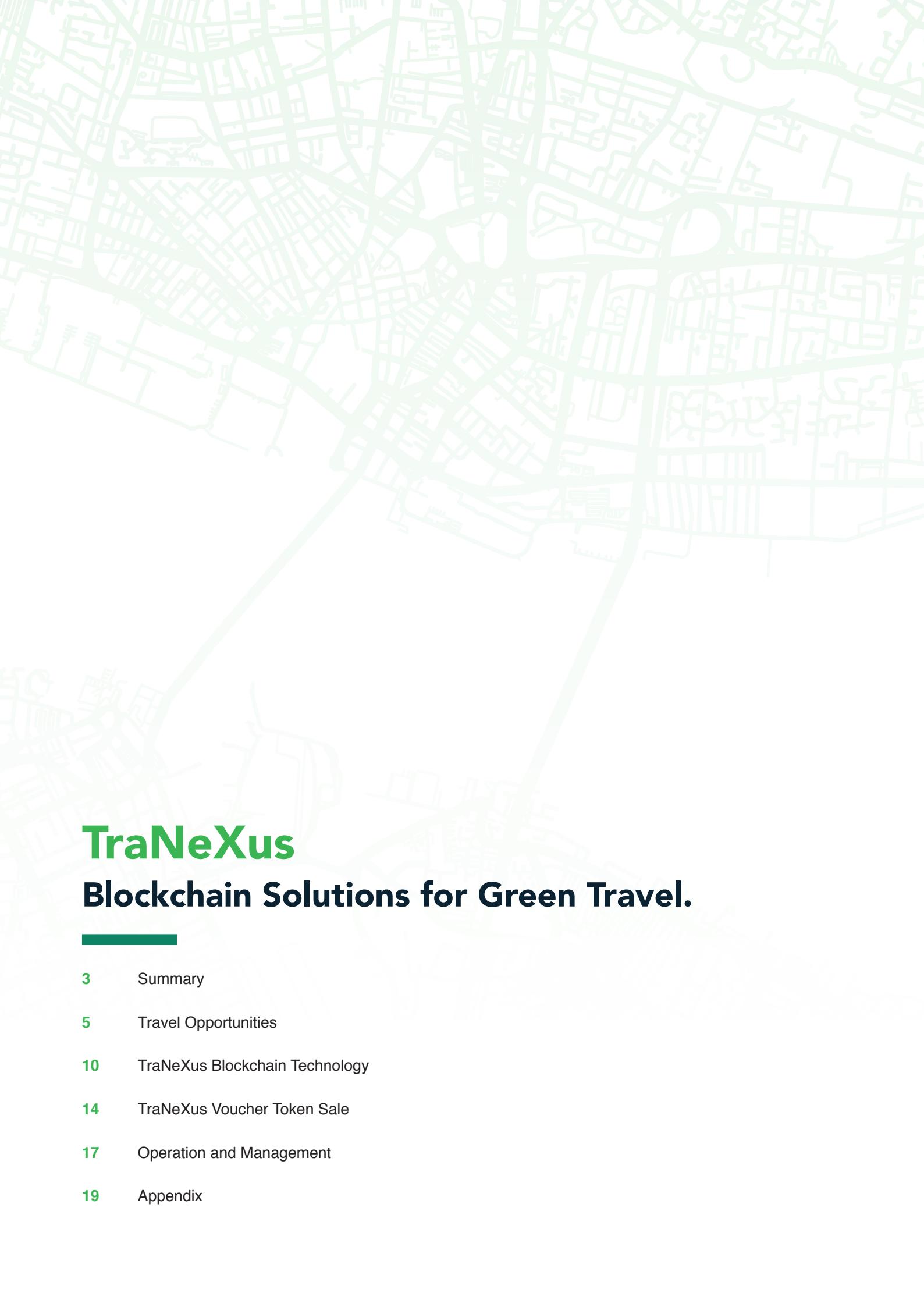
V2.0 | AUGUST 1. 2018



TRANEXUS

TRAVEL SMARTER





TraNeXus

Blockchain Solutions for Green Travel.

-
- 3** Summary
 - 5** Travel Opportunities
 - 10** TraNeXus Blockchain Technology
 - 14** TraNeXus Voucher Token Sale
 - 17** Operation and Management
 - 19** Appendix

Summary

Travel, Blockchain and Sustainability - Realising the Potential.



Travel & Tourism is a massive sector, with substantial opportunity for Blockchain technologies to improve traveller experience. It is one of the world's largest industries, with a very bright future. There are currently over 1 billion international and over 4 billion domestic trips every year. Total travellers double every 15 - 20 years. Annually, the sector drives some 10% of global GDP and jobs: it also generates more than US\$1 trillion international revenues alone. It's at the forefront of global change, cutting through industrial and service sectors, with an impact felt directly at local community level.

Blockchain can overcome many problems and inefficiencies in today's travel ecosystem - in areas such as planning, distribution, purchasing, fulfilment, border control, security, transportation, accommodations, visitor experience, shopping etc. This extends from products into linked services such as supply chains and infrastructure.

The simple objective of TraNeXus is to create a Blockchain based system, focused on the traveller - linking the many rapidly digitalising transactions needed to make a trip smarter, greener and better.

Our initial apps are:

- A Secure Wallet for our digital currency TNX, plus identity, e-visas, tickets, hotel bookings, etc.
- A Travel Assistant for aligned travel services including eco options, and low carbon choices.
- A Destination Explorer for local experiences, using gamification and Augmented Reality.



Our products will be clearly defined to meet evolving cryptocurrency regulations, from our base in Ireland. They will also support developing climate and sustainability norms. They will align with changing security and border passage standards.

We will emphasise **security, sustainability and connectivity** through established partnerships with WISEkey SA - a leading global cyber security firm, using IBM technology; with the not for profit SUN^x Foundation focused on climate resilience/sustainability; with Impact Travel Technologies, our partner for Decision Support Services, as well as with Augmented Reality pioneer GeoVector.

TNX will be released quarterly over a multi-decade period with an initial limit of 2 billion coins. TNX will be a pivotal utility in the execution of TraNeXus programs, providing secure transactions, green low carbon products and engaging destination choices. The limit will be academically re-assessed in line with Paris Climate Agreement review periods, starting in 2020, to ensure adequate service fulfilment.

TraNeXus is squarely focused on travellers, particularly experience-seeking Millennials and Generation Z's with an environmental conscience; but we will work simultaneously with supportive, likeminded companies, communities and countries, with a sustainability mindset, to gradually build and expand the framework. We will link with SUN^x expanding National Climate Resilience Network for accelerating market entry.

- We have in place a committed core team and experienced CEO, as well as a global Council of Advisors.
- We have a robust 3-year rolling business plan that foresees progressive global growth for our operations.
- We are seeking funds through an Initial Token Offering (ITO), to deliver on that plan.

Travel Opportunities

Servicing Travellers.



Global Travel & Tourism is one of the world's largest industries. There are currently more than 1 billion international and 4 billion domestic trips every year, flowing dynamically, ahead of GDP. The total number of travellers doubles every 15 - 20 years. International receipts alone are more than US \$1 trillion. This presents a substantial opportunity to those looking to improve travel experiences.

One critically important characteristic of Travel & Tourism is the fact that any single trip consists of multiple transactions underpinned by a myriad of contractual arrangements – for planning, booking, traveling, crossing borders, accommodation, eating, entertainment and the like. Many contractors are in the private sector, many are in the public sector: others in the increasingly digital Travel & Tourism economy. Some will be in country of origin, some enroute and some in the destination. The World Travel & Tourism Council (WTTC) have sought to show this in the diagram at [Appendix A](#).

It is this complex composition that has the potential to be transformed into a smoother, securer and more sustainable trip and which make the prospect for Blockchain and cryptocurrency so relevant.

According to WTTC, in 2017 alone, Tourism and Travel grew by 4% and contributed 10.4% to total global GDP. The same data suggests Travel & Tourism's direct contribution to GDP will grow at an average of 3.9 percent per year over the next 10 years.

WORLD	2017 USDbn ¹	2017 % of total	2018 Growth ²	2017 USDbn	2028 % of total	Growth ³
Direct contribution to GDP	2,570.1	3.2	4.0	3,890.0	3.6	3.8
Total contribution to GDP	8,272.3	10.4	4.0	12,450.1	11.7	3.8
Direct contribution to employment ⁴	118,454	3.8	2.4	150,139	4.2	2.2
Total contribution to employment ⁴	313,221	9.9	3.0	413,556	11.6	2.5
Visitor exports	1,494.2	6.5	3.9	2,311.4	6.9	4.1
Domestic spending	3,970.5	5.0	4.1	6,051.5	5.8	3.9
Leisure spending	4,233.3	2.5	4.1	6,605.3	2.8	4.1
Business spending	1,230.6	0.7	3.8	1,756.1	0.8	3.2
Capital investment	882.4	4.5	4.8	1,408.3	5.1	4.3

¹2017 constant prices & exchange rates; ²2018 real growth adjusted for inflation (%); ³2018-2018 annualized real growth adjusted for inflation (%); ⁴000 jobs

By 2028, Travel & Tourism is forecast to support more than 380 million jobs globally. It is expected to contribute around 23 percent of total global net job creation over the next decade

Over this coming decade, Travel & Tourism is predicted to account for 11.7 percent of global GDP, with visitor exports expected to account for 6.9 percent of total global exports.

Furthermore, the sector is expected to outperform the global economy throughout the forecast period, and to increase its share of global economic activity across GDP, employment, exports, and investment. It is also forecast to outpace a range of other major global economic activities, including communications, financial/ business services, manufacturing/retail, and distribution.

There are many significant, positive socio-economic impacts of Travel & Tourism, but there are negative effects as well, as indicated by the table below. Since it is an influential industry and serves as the primary source of income for many locations (especially developing and small island economies), it's particularly important that the negative impacts of the travel industry are managed effectively.

POSITIVE	NEGATIVE
<ul style="list-style-type: none">Creates wealth, jobs, trade and investmentHelps fight against povertyProvides opportunities for smaller businessesGenerates extra tax revenuesDrives improvements to infrastructureEncourages customs, handicrafts and festivalsConserves wildlife and natural resources	<ul style="list-style-type: none">Jobs are often seasonal and poorly paidMajor companies have disproportionate returnsTax revenue can be used for unrelated activitiesLocals may be displaced by new hotels or tourist attractions, which may overuse water and energyConcentration can be a threat to natural resourcesMore carbon, waste, noise, community disruption

TraNeXus Blockchain solutions will be developed to help accentuate positive and reduce negative elements - always from the primary perspective of the traveller.



Building Climate Resilient, Sustainable Solutions.

The world has entered a new, accelerating phase of sustainable development. This urgency is driven by climate change, reflected in the Paris Agreement and a framework of 17 Sustainable Development Goals (SDGs) outlined by the United Nations. Paris sets tough carbon reduction targets to 2050 to stabilise global temperatures at tolerable levels. The SDGs dive into the details of global activities with defined, yet evolving targets that are set through the year 2030. Because of the powerful international agreements that have been signed, countries, cities, businesses, and consumers will notice an increasing number of national and local regulations as states take steps to ensure that the SDGs and Paris targets are achieved.

According to widespread historical market research, travellers say they would like to go green, but they have difficulty identifying green products and are often unwilling to pay extra for them. More recent research by Nielson suggests however, that this reluctance to pay is evolving rapidly. Similarly, companies broadly embrace sustainable development as a key element of CSR, and they are investing slowly in sustainability transformation.

What this suggests, is a fast-growing interest in green tourism. Among travellers - particularly from experience-seeking Millennials and Generation Z's - who have grown up with Earth Day celebrated in school curricula. At the same time, more businesses are responding with green products and stronger Corporate Social Responsibility (CSR) initiatives. More destinations are moving sustainability up the agenda TraNeXus is designed to support this trend and to help accelerate it.

In 2017, Travel & Tourism, formally embraced the SDGs in an International Year of Sustainable Development. During this time, more than 1,000 branded events around the world pushed the sector towards the mainstream curve on building sustainability into growth and development plans. In 2018, the influential multi-national WTTC members formally committed to abide by the Paris Climate Agreement. We believe there is a climate-led paradigm shift underway that will make green the norm for all Travel & Tourism over the next decade. TraNeXus will aim to be a market leader and innovator in this field.

Travellers and travel companies who download the TraNeXus wallet and tokens will automatically become part of our global sustainability development programmes, identified through our partner, SUN^x Foundation and its rapidly expanding global network, of cloud connected Climate Resilience Centres, which is aiming for complete worldwide coverage over the next decade. This will also provide green engagement opportunities for travellers and local residents. We believe this can be one of the most profound sustainability efforts in the sector – particularly given the potential for embedded carbon reduction programmes. **See Appendix B.**

Communities will also welcome this approach because it protects against over-tourism, it promotes green travel products, and helps align local tourism with their overall Climate Resilience and SDG plans. This rapidly growing list of communities and companies committed to green growth with award-winning or certified products and properties, will be encouraged by green travellers using our wallet and tokens.



To illustrate the potential, McKinsey analysts predict that by 2020 the number of smart cities will reach 600 worldwide, and 5 years later almost 60 percent of the world's GDP will be produced in them. Smart cities are leaders in climate response as well as in leisure and business travel. In a quite different context, small island developing states, are acutely aware of the threat of climate change and are responding aggressively. At the same time tourism is a pivotal part of their socio-economic future. In both cases, TraNeXus solutions will provide innovative ways to attract green thinking travellers, and engage likeminded corporations and communities, while simultaneously helping meet carbon reduction commitments.

TraNeXus Destination Explorer will first target the younger, more environmentally-conscious travellers, and smaller tourist destinations that will more readily see the benefits of this new technology-based exchange. Small Island States have a natural potential, based on the nexus of climate resilience demands and tourism socio-economic contribution. We believe that in the medium term, this technology will spread to all Travel & Tourism sectors, products and destinations.

The Focus of TraNeXus.

TraNeXus will develop a series of applications that will leverage the power of Blockchain technology to maximise the travel experience, with the security of WISeKey systems, while enabling sustainability and climate resilience through SUN^x. The token sale will be used for development and launch.

The first application will be the TraNeXus – WISeKey Secure-Wallet. This will be a multi-purpose wallet that holds TNX and will also serve as an assembly point for all electronic documentation for the trip, as well as the secure digital identity of the traveller. Ultimately, it will become the go-to place for e-visas, tickets, boarding passes, hotel bookings, itineraries and more.

Working with WISeKey, we will ensure the powerful security of the wallet to prevent hacking and cybertheft. This includes contactless access for transactions and payments. In addition, it can be combined with a WISeKey Hardware Wallet containing the private key, which will be verified from stored NFC systems.

We will align the development of the TraNeXus Wallet with the known Traveller program of the World Economic Forum and other standards in organisations like IATA and ICAO.

The second application will be the TraNeXus Travel Assistant. The first release of this feature, which will be developed to link with popular travel services, will allow travellers to locate companies near them that accept TNX. These companies will be encouraged to add their businesses to the map, to indicate they accept and to make special offers to TraNeXus travellers. The second release will add the ability to search for desirable green, low carbon travel routes, restaurants, hotels, and experiences, as well as to keep track of a rolling itinerary of locations. Travellers will also be able to filter results based on price, popularity, accepted cryptocurrencies etc. They will be able to find, aggregate and ultimately pay for travel related products / services, with TNX.

This application will contain in release 1.0, two critical elements to advance green and climate resilient travel. We will develop an eco-pathfinder for travellers to source green products and services along their route, linked to climate and



tracker, developed with Fundación Plan 21 and IBM, will ensure that all travel related spending reflects a carbon count, which will allow easy integration with programs to adapt to climate change. This will also help to encourage recognition of TraNeXus by governments, who are grappling to introduce carbon reduction into evolving production and consumption business models. It will encourage companies who are increasingly looking for innovative ways to introduce carbon accounting to do so without disrupting operations with the option for the traveller to “give back” by ceding some or part of the prize to the destination, for reinvestment in carbon saving sustainability.

The third application will be the TraNeXus Explorer. This feature takes the fun and engaging aspects of Augmented Reality through proprietary methods and leverages Blockchain for the exchange of value. Quests are generated by Travel & Tourism companies, offering varying TNX based rewards, which are released if a traveller meets predefined parameters. Travellers will also be able to earn experience points and badges for completing various travel-related and green, low carbon activities. There are numerous other options within the Quest program – for example rewards may be sponsored with the option for the traveller to “give back” by ceding some or part of the prize to the destination, for reinvestment in carbon saving sustainability.

TraNeXus Explorer will also provide travellers with the ability to leave text, video, audio, or image messages that are only visible through A.R. for other TraNeXus Explorers who are in the same geographical location where the message was left.

The ability to add geo-tagged A.R. messages on the TraNeXus Blockchain through the TraNeXus Explorer is something that opens up the doors for secure, un-tampered, 4D type travel-journal experiences. For example, travellers could view historical images of a specific place through an Augmented Reality timeline and see how the location has changed over time. A tree in a National Park, a historical site, or a sports arena provide endless options.

As this feature develops, the introduction of Virtual Reality will be added, and what was originally just visible to travellers in a particular geographic location could be viewed through Blockchain enabled teleportation across the TraNeXus network. We believe these features will be particularly interesting for eco-travellers or those interested in seeing climate change impacts contained over time. We believe the power of being able to remotely experience the effects of climate change on the environment and communities in destinations everywhere can have a profound effect on the willingness of TraNeXus Travellers to provide support in secure ways never before conceived.

These will be the first three applications. Development will be an ongoing process with regular improvements and new releases. TraNeXus will work with other developers and businesses to innovate and launch their own applications on the secure TraNeXus Blockchain. The goal of releasing these three initial application features is to lead by example and to make a positive impact.

We intend to develop TraNeXus Blockchain solutions that will leverage evolving technologies and integrate with those in ways that will seamlessly benefit the travellers who are using our products, the companies that join our secure system, and the local communities and visitor economies who are ultimately affected.



TraNeXus Blockchain Technology

Introduction.

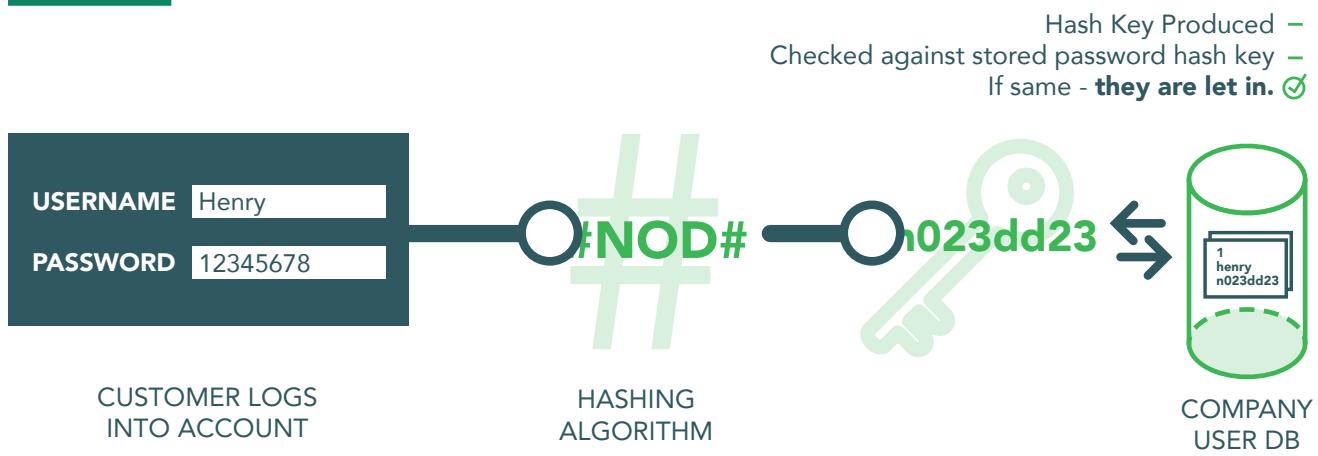


Blockchain is one of the fastest growing and most powerful technologies of the modern age - a public, decentralised and immutable ledger. Once a transaction is recorded onto this ledger, all nodes on the Blockchain network independently verify and synchronise their copies of the ledger. This mechanism of replicating data creates what has become the most robust network of data redundancy the world has ever seen.

The resilience of Blockchain is further pronounced by its censorship-resistant nature. When the network accepts a change as being “true,” it cannot be compromised or changed in any way. This creates a system within which the establishment of “trust” is based entirely upon mathematical proof which is further validated by a global consensus. The Blockchain does not depend upon the intentions of the users. As a result, it continues to function in its intended fashion regardless of outside influence or internal attempts to hijack the protocol.

Many attributes of Blockchain technology create an ironclad defence against cyberattacks. While traditional ledgers and database technologies are centralised and accessible only to a select group of administrators, Blockchain is completely transparent and decentralised. Centralised applications can experience downtime, and any centralised server that contains sensitive data is inherently vulnerable to a security breach. In a centralised system, there is only a single target entity which can be hacked and compromised.

TraNeXus Security.



The information recorded on the Blockchain is highly secure due to asymmetric cryptography. Data is encrypted by two different “keys” that are inherently different. One of these keys, the “private key” is used to authorise the sending of transactions. The second key, the “public key,” can be shared without compromising the private key and is used by third parties to mathematically verify the authenticity of any transaction coming from the sender.

One analogy is that the private key acts as a personal password that is not shared, and the public key acts as an account number that can be shared without risk of compromising the account. This mechanism completely removes the need to share private information with third parties during the process of authorising transactions.

While there are many well-established uses and benefits of Blockchain, TraNeXus aims to leverage this powerful technology to bring substantial, realistic improvements to travellers, the travel industry and host communities.

TraNeXus is partnered with WISeKey International Holding Ltd (WISeKey) (SIX:WIHN), a leading Swiss cybersecurity, Blockchain and IoT solutions company, to secure the TraNeXus Blockchain Engine. WISeKey are developing Blockchain security solutions on the IBM Cloud.

Through the partnership, the TraNeXus Blockchain will be secured by the WISeKey Root of Trust (RoT) technology, that combines all the hardware, software, and Trust Model required to take Blockchain security to a new level. The WISeKey RoT for Blockchain is a vertical security framework, a one-stop-shop security software tool with a user-friendly interface and easy-to-integrate API that manages the life-cycle of devices and their digital certificates, even when the IoT device is in an unsecured environment, such as during production or in the field.

The WISeKey secured TraNeXus Wallet provides users with contactless access to their private key, allowing them to make contactless transactions and payments. The highly secure combination of Near Field Communication (“NFC”) and WISeKey technologies will be used by the TraNeXus suite of applications when travellers are conducting transactions. In short, every time a contactless Blockchain transaction is made, such as a cryptocurrency transaction, the private key is verified from the NFC Hardware storage to enable the transaction.

While the exchanges and software wallets continue to get hacked, hardware wallets have gained popularity as they are providing the most secure solution for transaction and payments. These hardware wallets will become contactless and users will be able to establish multiple private keys into the secure store using the same TraNeXus Wallet App and access these private keys while making transactions in contactless mode.

The TraNeXus Wallet App will be compatible with existing Blockchain technologies and will work as part of an overall ecosystem using WISeKey Blockchain-as-a-Service (“BaaS”) offerings. WISeKey’s technology offers the security and scalability TraNeXus anticipates it will need as the use of our traveller-centred Blockchain grows.

Appendix C contains a high-level overview of the multidimensional travel related interactions that will be captured by the TraNeXus Blockchain.

TraNeXus Cryptonomy.

Token

The presale and ITO processes will be conducted using a voucher token, “XTNX” that can be directly exchanged for the fully-featured TraNeXus token upon its final release. TraNeXus tokens will be assigned the formal asset symbol of “TNX”. Tokens will function with geolocation and timestamps in order to facilitate the optional generation of accurate travel and carbon logs for each user within the TraNeXus suite of applications.

Acquisition

Prospective Subscribers may acquire TraNeXus voucher tokens XTNX in a number of ways:

- During the Private Presale, Public Presale and Public Token Sale events.
- By purchasing tokens during time-delayed sales from the automated vending smart contracts. This will be enabled in the official TraNeXus Wallet.
- By acquiring through the TraNeXus wallet from authorised exchanges.

Following the completion of the token sale, the core team will actively seek to have TNX listed on numerous cryptocurrency exchanges around the world.

Decentralised Supply

Many projects burn all remaining tokens not sold during a token sale event. Burning tokens is commonly assumed to be a best practice. This traditional approach to Cryptocurrency design however poses one of the greatest challenges. If all spare tokens are burned on conclusion of a token sale, the radical scarcity may well cause profit-seeking token holders to unleash an unpredictable and reckless cycle of ongoing price swings. These token holders have little to no interest in the



The mechanism of the TNX smart contract will be used to enforce a decentralised vending process with tokens that remain after the target token sale goals are reached. The time-delayed, metered vending of TNX tokens is designed to track with the 2050 Paris Accord target date.

TNX that are not acquired during the Private Presale, Public Presale and Public ITO phases will be added in an amortised methodology to the time-delayed auction amount of tokens. We believe that any other use of these tokens and their inherent value will work against the ethos of TraNeXus. This is a long game, focused on building sustainability. We are well aware it will not change the world overnight, however, we do believe that decades of TraNeXus Travellers pulling together on the TraNeXus Blockchain, will make a huge difference to the planet, and to our children and grandchildren in the future.

For each time-delayed metered vending, a “mother” smart contract holding all the tokens which remain after the target token sale goals are reached will automatically vend a set quantity of TNX tokens by generating a “child” smart contract. The child smart contract will then automate the selling of the tokens embedded inside of it until all the tokens have been acquired. While this process will be entirely automated, there also will be a failsafe mechanism embedded in each smart contract that will prevent the vending from taking place should specific parameters not be met.

We believe that this strategic rollout of the TraNeXus project is a significant improvement on token burning. This contrast is a key advantage due to the size of the target market. The travel industry is one of the largest global industries, and for this reason the initial token sale mechanism, once deployed, cannot be expected to measure up to the level of overall funding needed over time.

With this in mind the limit will be periodically re-assessed in line with Paris Agreement review periods starting in 2020, to ensure adequate service fulfilment. We will appoint a high level academic and business panel to undertake this re-assessment and recommend any changes needed.

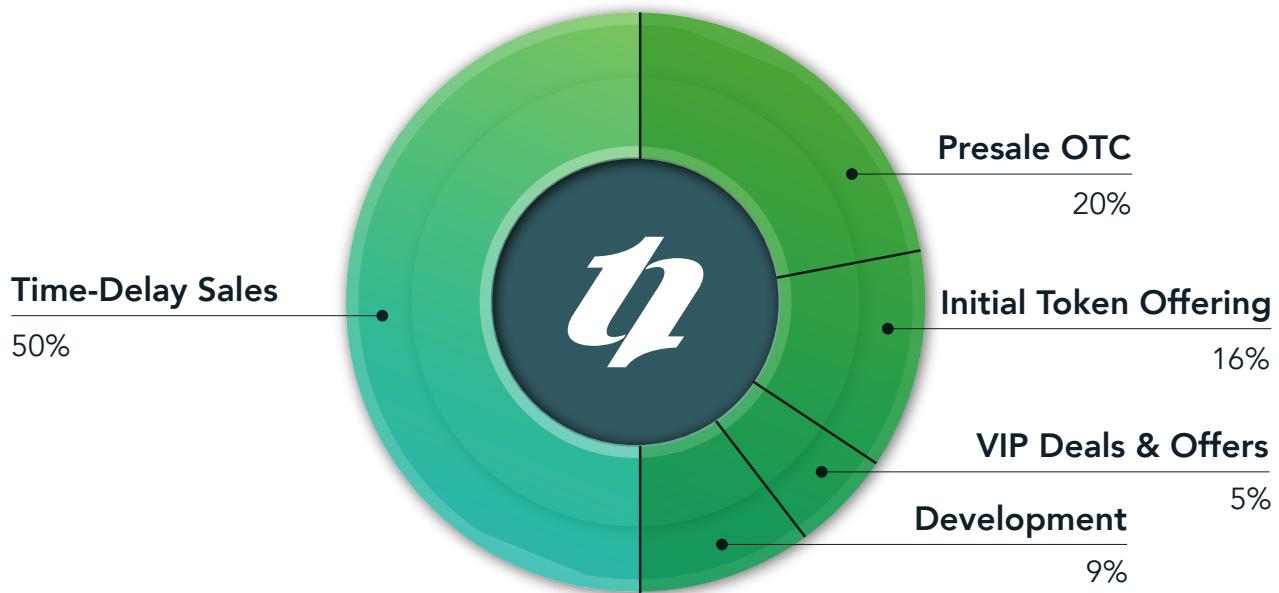


TraNeXus Voucher Token Sale

Token Distribution.



TraNeXus Token Allocations



The distribution of tokens in relation to TraNeXus is defined by the pie chart above.

As displayed above:

- 20 percent (400 million) for the Private Presale and Public Presale Over The Counter (OTC) program or large individual buyer transactions.
- 16 percent (320 million) for the initial token offering.
- 5 percent (100 million) for exclusive VIP deals and sponsorships.
- 9 percent (180 million) for the TraNeXus Company to continue development.
- 50 percent (1 billion) of TraNeXus coin will be allotted for time-delay sales for ongoing development.

These percentages are taken from the total 2 billion tokens generated. The funds raised in the ITO will be used to support the development of the TraNeXus platform and to fund TraNeXus global operation. Additionally, 10% of all funds raised will be used for sustainable development and climate resilient initiatives through the SUN^x partnership.

The TraNeXus Voucher Token (XTNX)

Presale and ITO events will be conducted using a voucher token, XTNX, for identification. Soon after completion of the ITO period, these voucher tokens will be exchangeable for the newly created TNX tokens from inside the TraNeXus Wallet. The sale of the XTNX tokens is intended to facilitate full development of the TraNeXus blockchain application.

ITO Goals and Pricing Guide

Mapped out in the following tables are the intended quantities, timeframes, and prices of the TraNeXus tokens for the presale and ITO events. Any token not sold during the time allotted will be rolled over into the following time period. Additional time may be necessary to facilitate the sale of all allotted tokens. Please note that the following numbers are not intended to be a statement of intrinsic asset valuation or projections of future value.

Please see Appendix E for additional notices and disclosures.

During the pre-sale period, there will be a minimum purchase amount in each stage, including the Private Pre-sale and Public Pre-sale will be conducted as in the table below.

Phase	Date	Voucher Amount	Voucher Price	Total
Private Presale	August 2018	200,000,000	—	—
Public Presale	Q4 2018	200,000,000	€ 0.06	€ 12,000,000
TDE XTNX	Q1 2019	320,000,000	€ 0.10	€ 32,000,000
Total	—	720,000,000	—	€ 44,000,000



Development Timeline.

OBJECTIVE	TIMEFRAME
• Private Voucher Token Pre-Sale (XTNX)	August 2018
• Public Voucher Token Pre-Sale (XTNX)	Q4 2018
• TraNeXus Public Token Sale	Q1 2019
• Public Beta: TraNeXus Wallet Application	Q1 2019
• Full Release: TraNeXus Wallet Application	Q1 2019
• TraNeXus Blockchain Launch: Test Net	Q1 2019
• TraNeXus Blockchain Launch: Main Net	Q2 2019
• Public Beta: TraNeXus Travel Assistant	Q3 2019
• Full Release: TraNeXus Travel Assistant	Q4 2019
• Token Swap of XTNX for TNX	Q4 2019
• Quest Smart Contract Launch: Test Net	Q4 2019
• Quest Smart Contract Launch: Main Net	Q1 2020
• Public Beta: TraNeXus Explorer	Q1 2020
• Full Beta: TraNeXus Explorer	Q2 2020
• Making Travel Easier, Better, Greener and More FUN	ONGOING



Operation & Management

Introduction.



We have created a lean and focused structure to develop and manage TraNeXus Blockchain Solutions designed to ensure long term delivery, closely aligned with the planned token auction lifecycle.

Ownership of the underlying Blockchain and related technology, as well as the token sale proposal, has been placed in a holding company, TraNeXus Ltd (Ireland). This company will be responsible for the token sale, managing the routine token auctions, and holding and dispersing funds. The company is located in Ireland, and its operation is in full compliance with national regulations, as well as relevant EU and international regulations. Its Founding Directors are Professor Geoffrey Lipman and Marcel Henry. It has executed an MOU with WISeKey SA to develop a new secured TraNeXus Travel Blockchain platform, using WISeKey's CyberSecurity Technology. It has a Partnership Accord with SUN^x (Strong Universal Network) for Climate Resilience and Sustainability and with Impact-Travel Technologies our partner for Decision Support Services, as well as with Augmented Reality pioneer GeoVector.

Management and operations will be handled by a dedicated corporation focused on strategy execution. Its CEO is Christoph Klenner, a respected Travel & Tourism Technology leader, with experience in organizing and representing Industry activities with governments, organizations and media. Operations will be performed by a mix of permanent staff and through third-party contracts with specialist outsourced service providers. The company will have a board of directors of no more than seven members, chaired by Professor Geoffrey Lipman,

Our first actions, post-token sale, will be to refine and approve the currently draft business plan, as well as intensifying global social media marketing, using existing collateral. In addition, an Advisory group has been established, consisting of experienced travel industry experts from around the world, to support outreach, business development and expansion. We will concentrate initially on collaboration with WISeKey for Blockchain security and development of the TraNeXus-WISeKey Wallet; as well as with IBM for optimal use of Hyper-Ledger and Watson Analytics. We will work closely with SUN^x for green support generally, climate resilience specifically, and for development of the TraNeXus Travel Assistant and Green Eco-system. We will develop in-house, and through partnerships, proprietary Augmented Reality and natural-gesture based Pointing solutions, Community Decision Support Systems, and a Climate Resilience Carbon Exchange. In the latter context we foresee alignment with the World Economic Forum's Climate Project.

TraNeXus Team and Global Advisors.

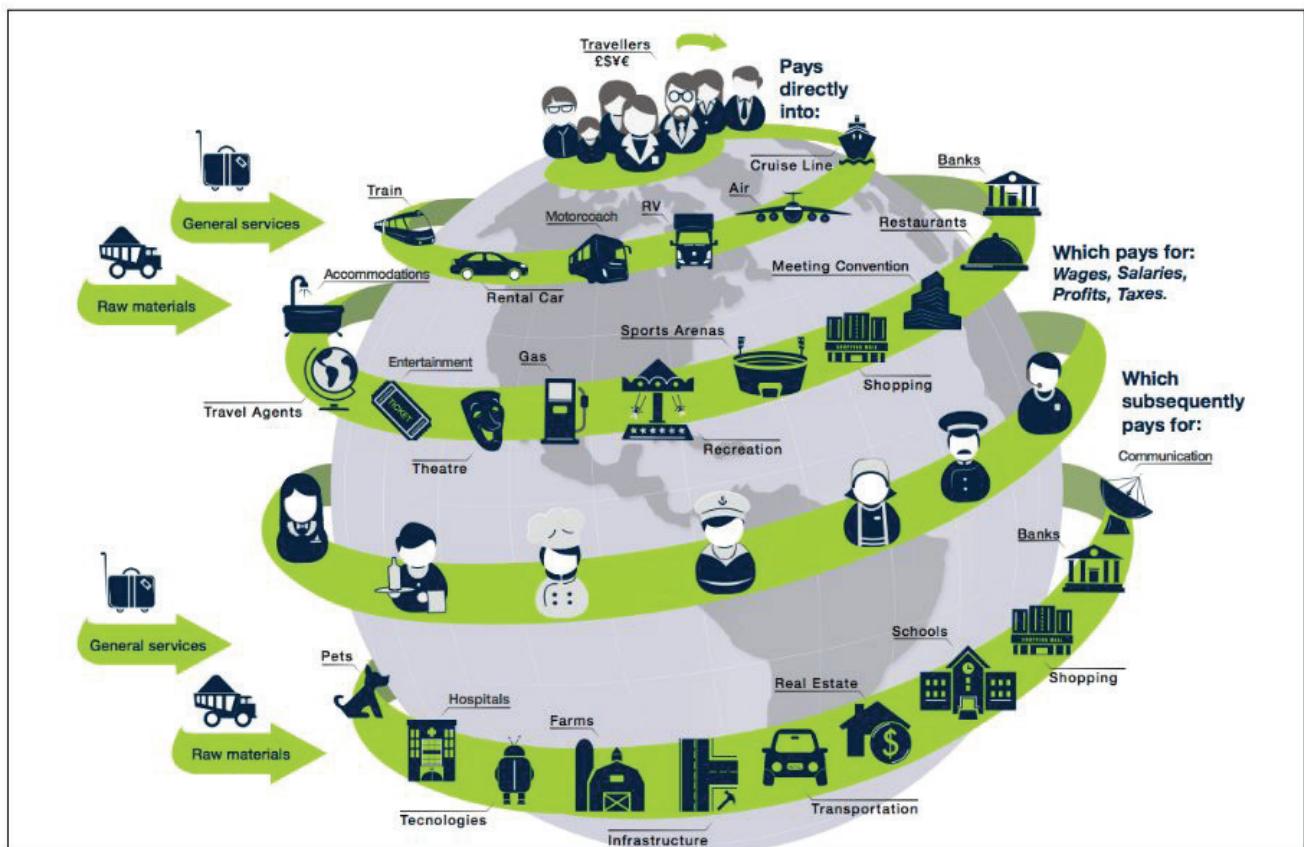
Listed below are the TraNeXus Governance, Core Team and Global Advisors – see www.tranexus.com for biography details – it is based on their extensive experience in industry/government affairs or Travel & Tourism e-development or sustainability.

NAME	TITLE	COUNTRY
Prof. Geoffrey Lipman	Co-Founder TraNeXus	Belgium 
Marcel Henry	Co-Founder TraNeXus	Ireland 
Christoph Klenner	CEO TraNeXus	Belgium 
Olly Wheatcroft	Community Manager TraNexus	UK 
Wei Shi	Financial Advisor TraNeXus	Finland 
Joyce O'Neil	Product Manager TraNeXus	Ireland 
Joe McInerney	Former President AHMA & PATA	USA 
Rose Mukogo	Former Dir. Zimbabwe Parks & Wildlife	Zimbabwe 
Alex Rayner	CEO Smart Data	Hong Kong 
Prof. Carlos Vogler	Former Exec Director UNWTO	Spain 
Douglas Gollan	Former Editor Elite Traveller	USA 
Hisham Zaazou	Former Minister of Tourism Egypt	Egypt 
Jeanine Pires	Former Head Embratur	Brazil 
Alain St. Ange	Former Minister of Tourism Seychelles	Seychelles 
Frank McCosker	Former GM Affordable Access Microsoft	UK 
Paul Wilke	Former VP PR S/SE Asia Visa	USA 
Helena Egan	Former Director Industry Relations TripAdvisor	Finland 
Ghassan Aidi	President International Hotel Association	USA 
Jens Thraenhart	Exec Director Mekong Tourism Organization	Bangkok 
Mariette du Toit	Former CEO Capetown Tourism	South Africa 
Georg Drakopoulos	Former CEO Greek Tourism Organization	Greece 
Dr Tom Selanniemi	Former Chair Tour Operators Initiative	Finland 
Geoff Buckley	Former MD Tourism Australia	Australia 
Vijay Poonoosamy	Director International Affairs QI Group	Malaysia 
Guy Facey	Facey Law Associates	Hong Kong 



Appendix A

Impacts of the Travel and Tourism Industry.



Source: World Travel & Tourism Council

"WTTC Economic Impact Research 2018", shows that Travel & Tourism was responsible for the creation of 7 million new jobs worldwide. The report also shows that 2017 was a bumper year for the global Travel & Tourism sector, which grew at 4.6%, much faster than the economy as a whole (3% growth during 2017).

For the seventh consecutive year, the Travel & Tourism sector outperformed the global economy and in 2017 was the fastest-growing broad economic sector globally, showing stronger growth than all sectors including manufacturing (4.2%), retail and wholesale (3.4%), agriculture, forestry and fisheries (2.6%) and financial services (2.5%).

2017, Travel & Tourism's Direct, Indirect and Induced Impact

- US\$8.3 trillion contribution to global GDP (10.4%).
- 313 million jobs, 1 in 10 jobs around the world.
- US\$1.5 trillion exports (6.5% of total exports, 28.8% of global services exports).
- US\$882 billion investment (4.5% of total investment).

Highlights From Around the World Include

- Europe's performance was better than previously expected with 4.8% growth as long-haul demand (dampened in 2016 by terrorism concerns) recovered strongly, accompanied by strong intra-regional travel - thanks to the strength of the European economy. In 2017, European airlines recorded passenger growth of 8.1% and over 1 billion passengers for the first time.
- Travel & Tourism's contribution to GDP in North Africa grew by 22.6% in 2017, showing a strong rebound from the impacts of terrorism in previous years. Stellar performance from Egypt (72.9%) and solid growth in Tunisia (7.6%) inspire confidence in the region as tourism activity continues to recover to pre-attack levels.
- Asian countries continue to drive global tourism growth with North East Asia growing at 7.4% and South East Asia at 6.7%. China continues to lead the way at 9.8%. Over the next ten years, over one-third of absolute GDP growth and nearly half of employment growth will be generated by China and India.
- Latin America showed a decline of 1.4% in tourism GDP, largely a result of a contraction in international spend to the largest Latin American economy, Brazil, of 18.1% compared to 2016, and compounded by the ongoing political and economic problems in Venezuela.

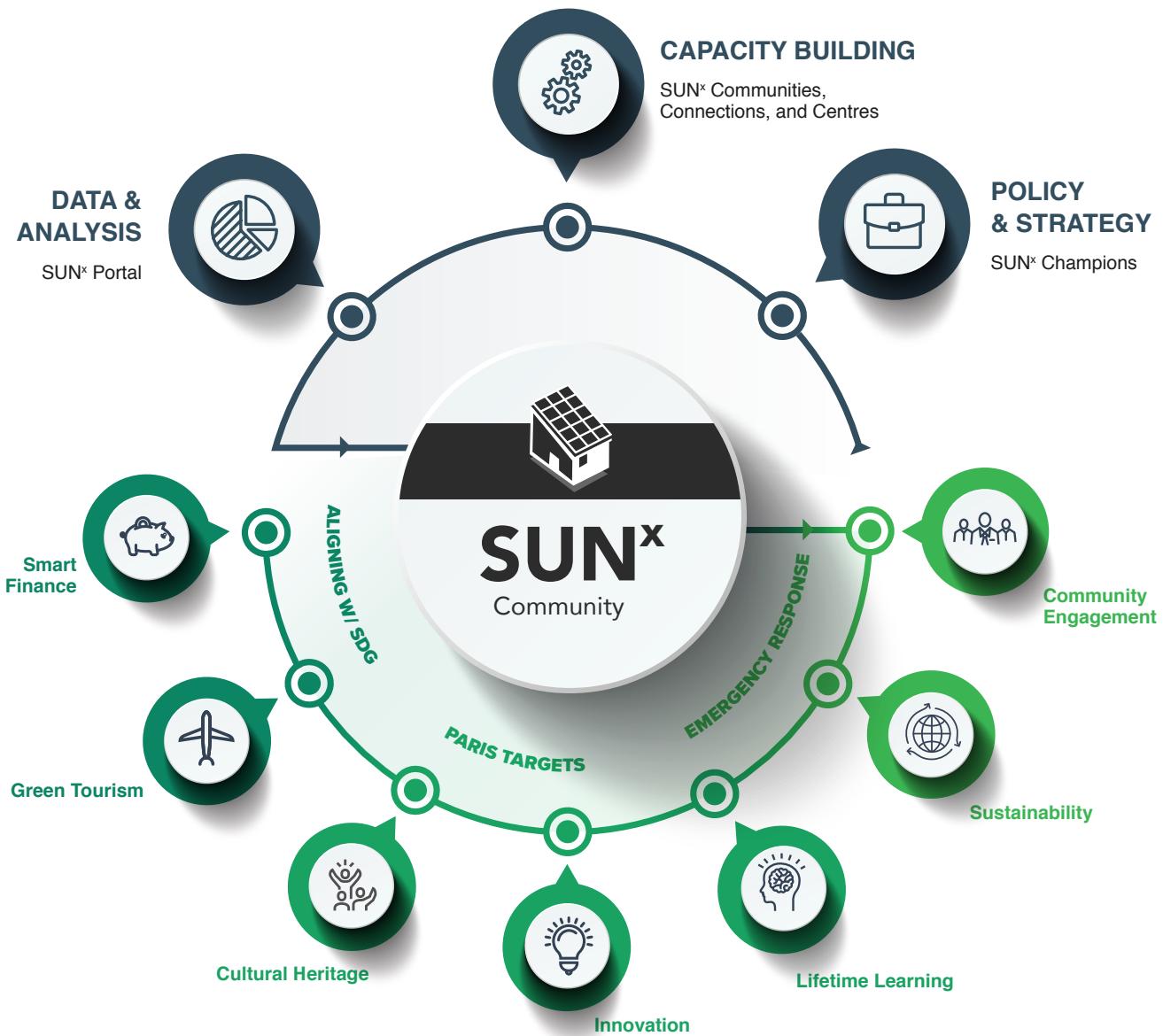
The Long-term Outlook

Forecasts for 2018 suggest growth will continue, albeit at a slower rate than in 2017. The long-term outlook to 2028 remains unchanged, with average growth of 3.8% per year over the next decade. However, by 2028, Travel & Tourism is expected to support more than 400 million jobs globally, which equates to 1 in 9 of all jobs in the world; and the sector is expected to contribute around 25% of global net job creation over the next decade.



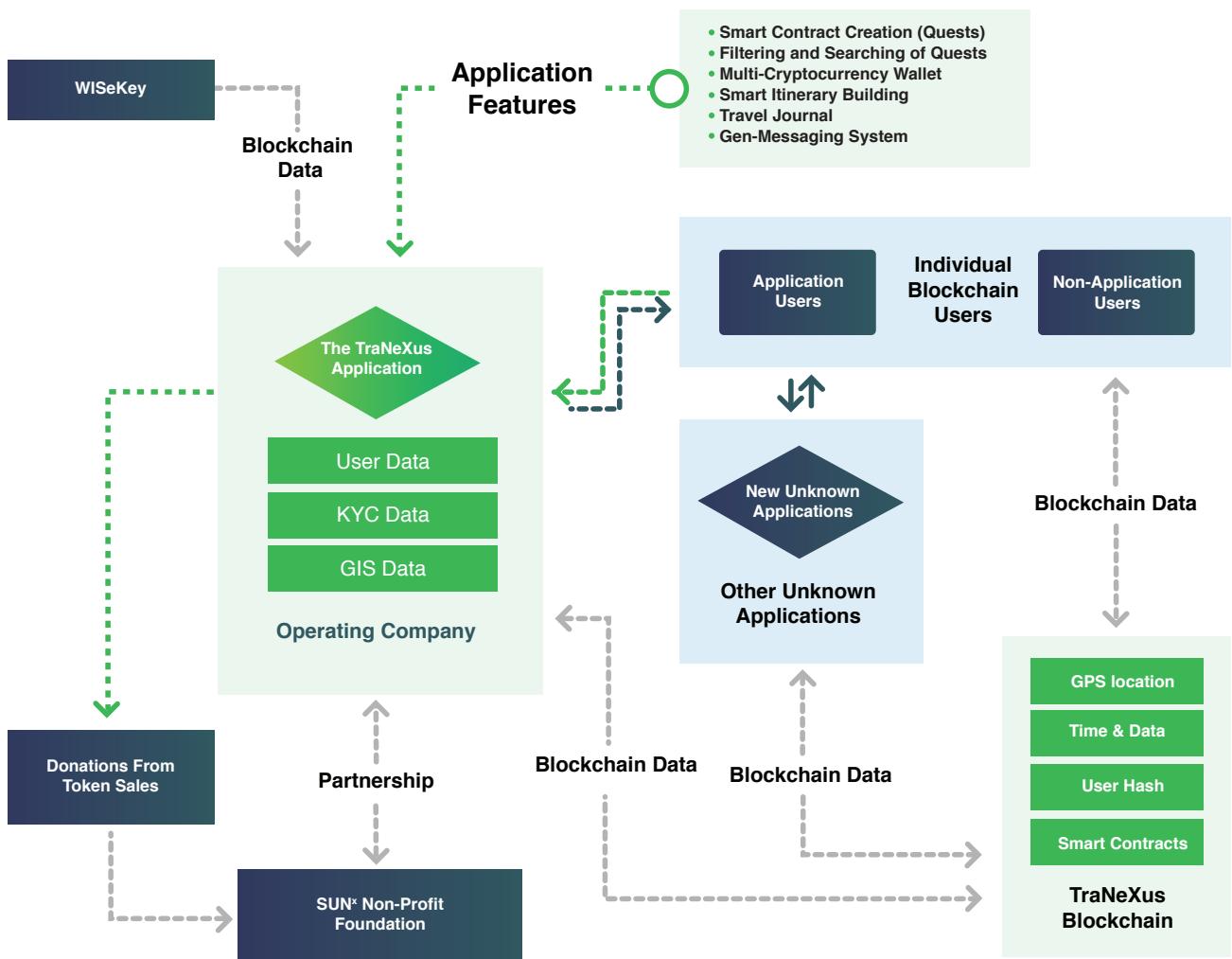
Appendix B

SUN^x – Strong Universal Network.



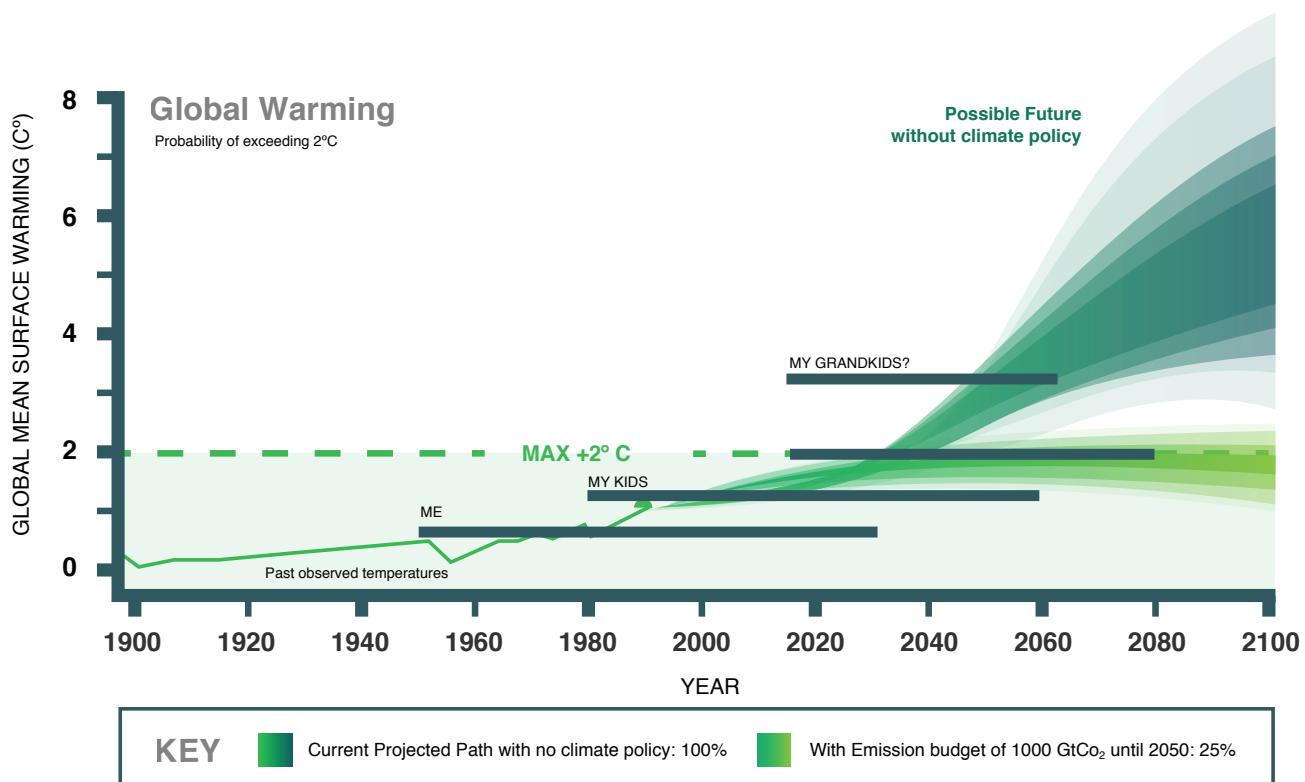
Appendix C

TraNeXus Blockchain Basic Interactions.



Appendix D

Sustainable Development Timeline.



Appendix E

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