



**PUTTING THE
POWER IN
YOUR HANDS**



**ASX:TYM
INVESTOR PRESENTATION
SEPTEMBER 2020**

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Unless otherwise states, all dollar values are expressed in Australian Dollars (A\$). The information in this presentation remains subject to change without notice.



INTRODUCING TYMLEZ

OUR VISION

We envision a world that moves towards decentralized IT-systems where participants stay in complete control of their data and transactions

OUR MISSION

To bring commercial-grade blockchain technology to any enterprise, that can integrate flawlessly in any setting

WE DO THIS BY

- Delivering a scalable platform capable of handling **more than 10,000 transactions per second**, which enables accelerated development, management and deployment, of enterprise blockchain applications for the energy, telematics, fintech, and healthcare markets
- Providing a **highly scalable, multi-tenant, enterprise-grade smart contract platform**, that can be deployed in minutes and / or implemented, within an enterprise or across a consortium through the use of modelling tools

BOARD OF DIRECTORS



Reinier van der Drift

CEO

Reinier founded Tymlez in 2016. Prior to Tymlez, Reinier was founder and CEO of Authasas (2009) which was acquired by Micro Focus in July 2015. Reinier has been a leader in the ICT industry since 1984, concentrating his efforts on strong authentication methods since 1997. As an entrepreneur, Reinier's leadership has led to the creation of several companies with the purpose of expanding the biometric and smartcard marketplace in Europe, the USA, and Asia.



Wayne Clay

Chairman

Wayne is the current CEO of TGOOD Australia. TGOOD is one of the largest providers of prefabricated sub-stations and Electric Vehicle (EV) infrastructure. As TGOOD's CEO, Wayne has led the development of the TGOOD Australia business from the delivery of its very first project through to its first major EPC project in the renewable energy and mining sectors. Wayne also leads the TGOOD Global Project Management Office (PMO), ensuring and enabling delivery expertise and business improvement process right across the TGOOD Global portfolio.



Daniel O'Halloran

Non-Executive Director

Daniel O'Halloran is an experienced Board Member, Energy Industry Executive and Investor, with more than 13 years' experience consulting in the transmission power grid sector. As founder and CEO of a number of successful energy transmission companies, he has worked closely with major utility asset owners in Australian, Canadian and American markets to maximise grid efficiencies through the introduction of smart grid and green energy integration. Daniel's investment strategies are deeply driven by innovation, sustainability and positive social impact, with current investments and advisory roles that sit mainly in Renewable Energy, Bio Tech, Agri Tech and AI.



Jitze Jongsma

CFO

Jitze is the current director and co-owner of Lighthouse Investments BV, which specialises in investments in mid-sized innovative companies with a strong focus on their strategic position within their branch. He is also the co-owner of Albatross Industries which specialises in manufacturing installations for CO2 Capture and Desulphurization. Albatross has at its disposal cutting edge technology. In addition, he is also a board member of Procede Group BV, a chemical engineering company; and also the co-owner of the CFO company which supports the management of mid-sized companies with top educated and experienced financial managers.

*Wayne Clay to be appointed Chairman on 14/09/2020

ADVISORY BOARD



Dr. Magnus Olofson
Green Energy Expert

Dr. Olofsson currently holds several positions. Amongst them, Senior Advisor at Nordic Energy Research in Oslo, Norway, Swedish National Expert in ISGAN, International Smart Grid Action Network, and Vice Chair of the Electrical Engineering division of the Royal Swedish Academy of Engineering Sciences. Magnus has a background from global senior management positions at ABB, he has been CEO of Swedish Electrical Utilities' R&D Company and director-general in energy for the Swedish Government.



Cornelius G Ryan
Business Development

Cornelius, a graduate of Electrical Engineering and Measurement and Control Systems, is a seasoned Business Development Executive with over 35 years' experience in Engineering and Construction. Operating in the Middle East, Asia, South Africa and Europe, his core strengths include his ability to focus on the key principles of client relationships, development, and growth in shareholder returns. Cornelius has previously served as Executive Director of Business Development at Kentz Corporation LLC ("Kentz"), where he helped drive revenues for over \$120M. Kentz was later sold in 2014 in excess of \$2BN.



Dr. Stephen Friel
Markets Expert

Dr. Friel (Steve) will be integral in supporting the company's focus on the energy and telematics markets. The success of his appointment will allow the company to better leverage the TYMLEZ platform, with scalable, strategic insights into market design, to add ongoing value to our enterprise clients regardless of their size. Steve's role will be to provide additional technical rigor to ensure that all TYMLEZ customers have a seamless experience for blockchain settlement for their unique market environments. Steve's PhD research put forward an innovative, empirically validated, theoretical framework on which market outcome solutions can be engineered quantitatively and integrated, into real-world trading technologies.



Skip Middleton
Strategic Advisor

Mr Middleton is a turnaround specialist. Skip is the founder of Sinteag Ventures, a multi-faceted investment and advisory firm based in Florida; and will play an instrumental role in bringing the TYMLEZ marketplace into the US market. He is currently a non-executive advisory board member at Japanese multinational and previously was a top executive for 10 years at inbox.com, working alongside the founder to expand the business internationally. He was instrumental in growing EBITDA from \$600,000 to \$40,000,000 in 7 years, while keeping headcount to ~150 employees.

CAPITAL STRUCTURE



Total Ordinary Shares Issued TYM	194,787,104 quoted shares 72,322,260 shares escrowed to 24/12/20
Total Listed Options TYMO	18,062,869
Stock Price (ASX:TYM) 01/09/20	A\$0.14
Cash bal. quarter ending 30/06/20	A\$130,000
Market Cap as at 01/09/20	A\$27.3M



OUR PARTNERS



Google Cloud Platform



**Hewlett Packard
Enterprise**

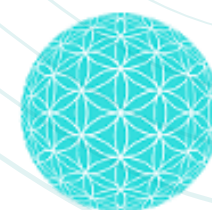
ICT



**rijksuniversiteit
 groningen**



VU **VRIJE
UNIVERSITEIT
AMSTERDAM**



FOCAFET



DNV-GL

Blockchain is Coming of Age

"The global blockchain market size is expected to grow from USD 3.0 billion in 2020 to USD 39.7 billion by 2025, at an impressive Compound Annual Growth Rate (CAGR) of 67.3% during 2020-2025. The increasing need for simplifying the business processes and need for supply chain management applications integrated with the blockchain technology will drive the overall blockchain market."

- Markets and Markets report, May 2020

Source: Markets and Markets, Blockchain Market, May 2020. Read [here](#)

BLOCKCHAIN OUTLOOK



US\$3T

Projected annual business value generated by blockchain by 2030

67.3%

CAGR in blockchain market, as it's expected to grow from US\$3B in 2020 to US\$39.7B in 2025

10-20%

Of global infrastructure will be running on blockchain by 2030

Credibility and trust in blockchain continues to grow as notable names enter the market, increasing global market size and adoption:

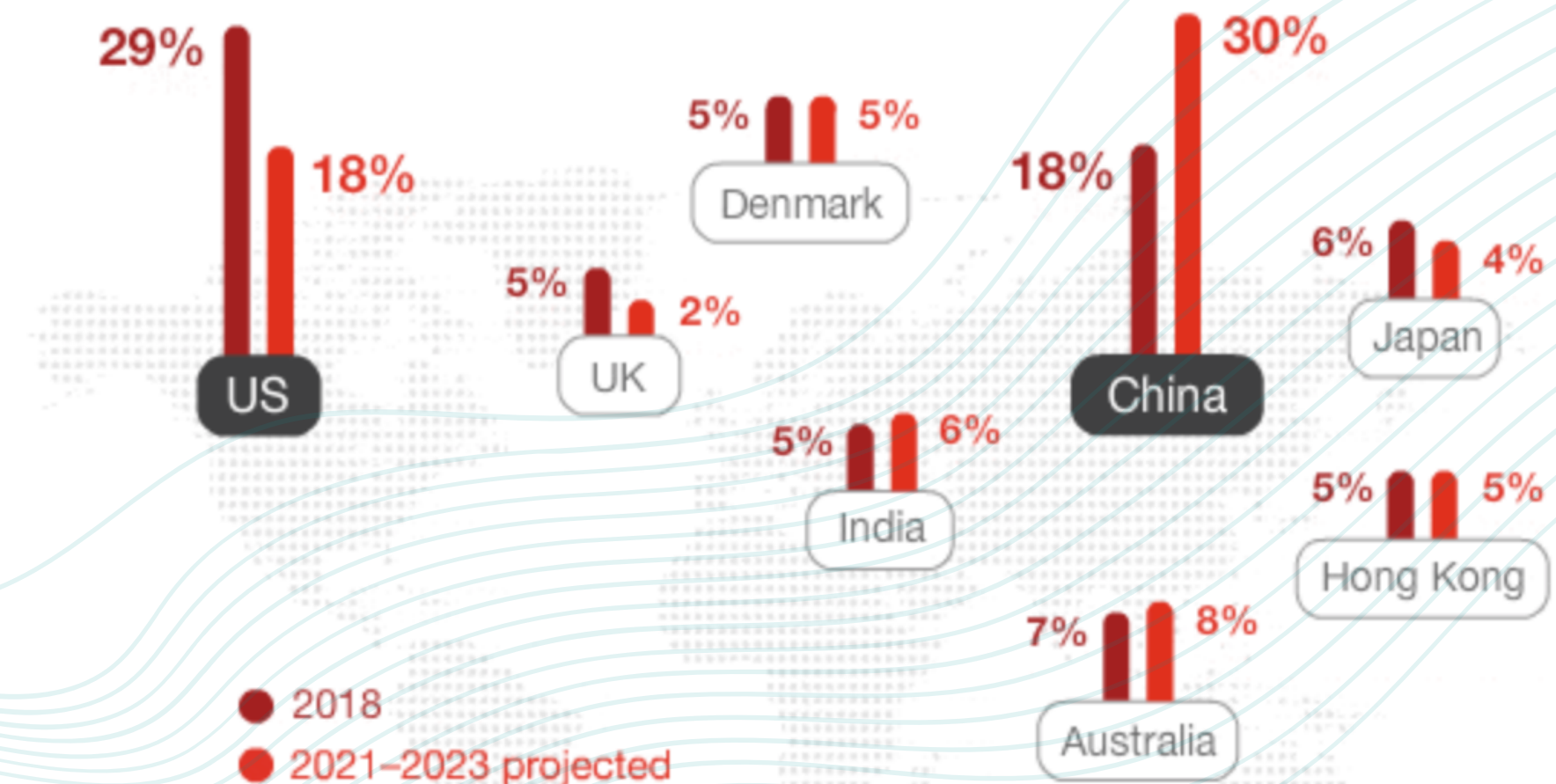
Google

Microsoft

SAP

IBM

Which territories are seen as blockchain leaders — today and tomorrow



Note: Base: 600.

Q: Which of these territories are most advanced in developing blockchain projects?

Source: PwC Global Blockchain survey, 2018

OUR STRATEGY



TYMLEZ'S KEY VERTICALS IN ORDER OF PRIORITY

COMMERCIAL

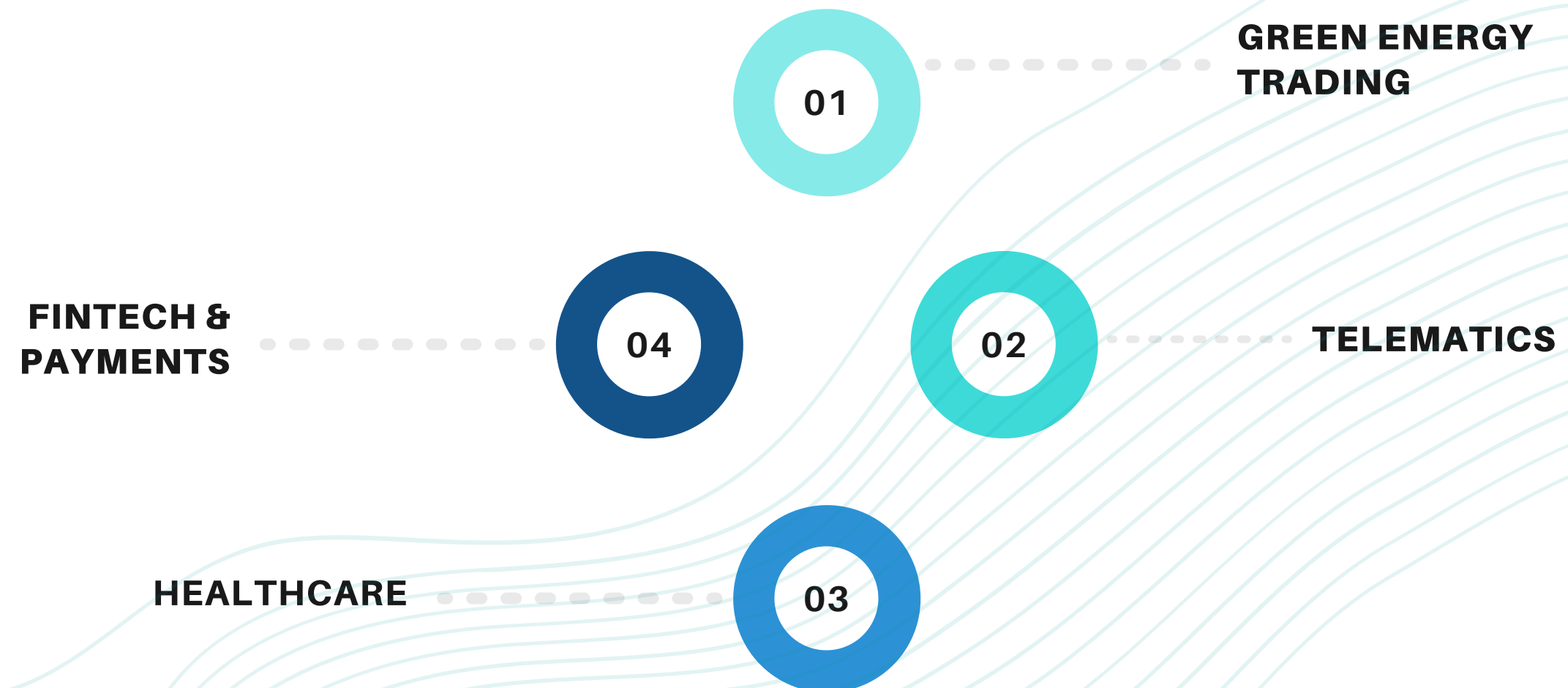
Focus on selling perpetual licenses and generating recurring revenues

DEVELOPMENT

Blockchain agnostic platform with marketplace specific functionalities

WE DO THIS BY

- Direct engagements with large enterprises in the energy, telematics markets, healthcare & fintech
- Expanding our team with highly qualified consultants & software architect and engineers



Key Vertical #1: Green Energy Trading

Renewables are leading the way for a 'Green Recovery' post Covid-19

"Renewable power will become the largest area of spending in the energy industry in 2021, on our estimates, surpassing upstream oil and gas for the first time in history, on our estimates, reaching 25% of total energy supply capex"

- Goldman Sachs, 2020

GLOBAL OUTLOOK



US\$16T

**Investment opportunity
in clean energy through
2030**

US\$1-2T

**Estimated annual
expenditure on clean
energy infrastructure**

15-20M

**Jobs created
worldwide, through
public-private
collaboration by 2030**

30%

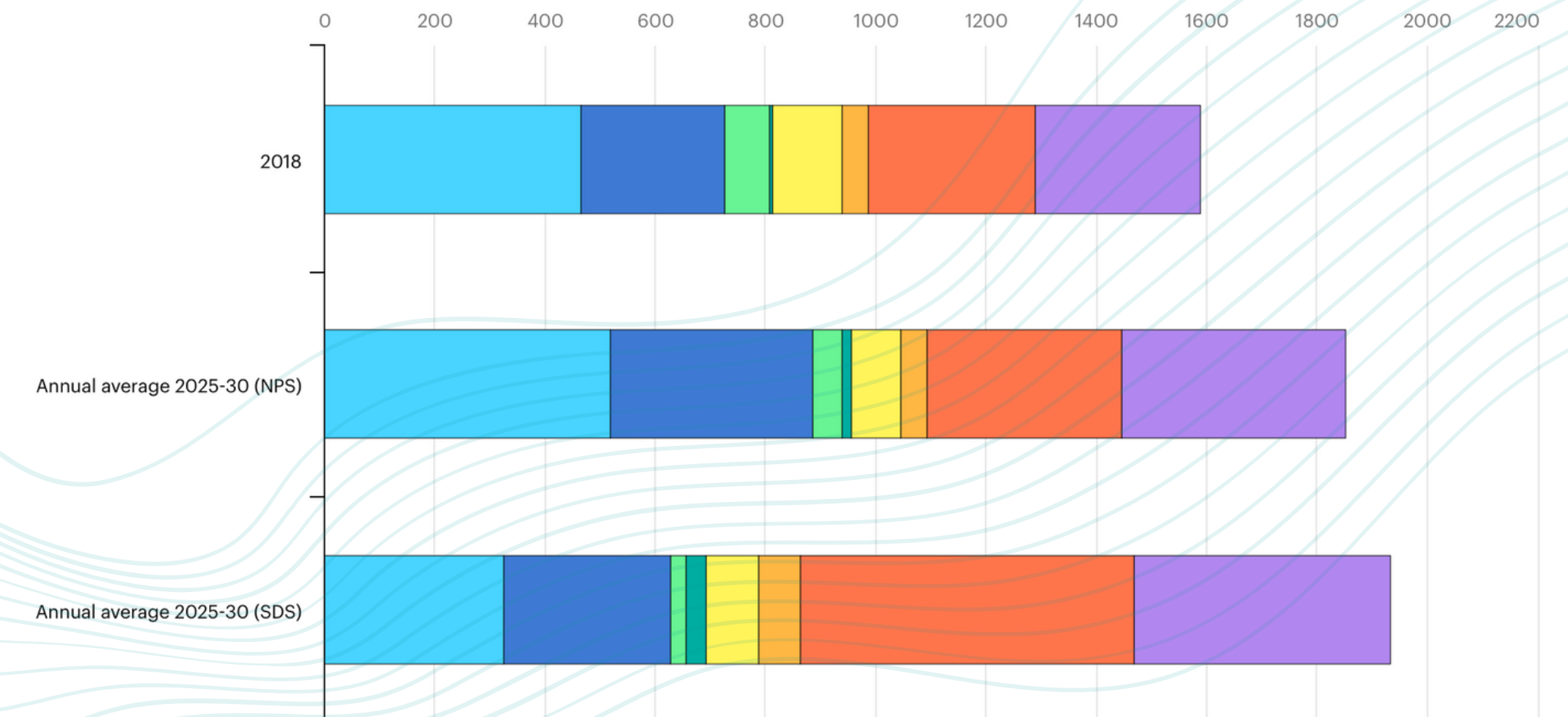
**Share of renewables in
the global energy mix
by 2030**

85%

**Share of renewable
energy in the power
sector by 2050**

**International Energy Agency's estimated global energy investment
scenarios**
NPS- IEA's proposed policy-based energy mix
SDS- Sustainable Development Scenario as per Paris Agreement

USD (2018) billion



IEA. All Rights Reserved

GLOBAL OUTLOOK



The global distributed energy resources (DER) technology market accounted for US\$ 52.1 billion in 2019 and is estimated to be US\$ 165.2 billion by 2029 and is anticipated to register a CAGR of 12.4%

€1T

European investment in renewables over the next decade

US\$1T

United State's 2030 renewables investment target

US\$100B

Japan's investment in wind and solar over the next decade

62%

China's estimated non-fossil electricity generation by 2030

Renewable energy needs to be scaled up at least six times faster for the world to start to meet the goals set out in the Paris Agreement.

The European Commission outlined its roadmap for the "European Green Deal" earlier this year, committing to publish a plan encompassing specific policies and investment requirements to reach "net zero carbon emissions" by 2050.

Green Deal goals imply that by 2030 carbon-free power generation could reach c.65% of the EU mix vs. c.40% today. By 2050, the share of renewables could reach up to 90%.

US has to date met one eighth of the total \$1 trillion campaign goal. To achieve the remaining investment by 2030, an average of \$87.5 billion a year will need to be invested through 2029 - an annual increase of 28% over the 2019 investment level.

A predicted investment of over \$US100 billion (\$A139 billion) in solar and wind power over the next decade is expected to take Japan beyond its renewable target to a share of 27% of the country's energy mix.

Japan had set itself a target of pushing the renewable share of its energy mix to between 22% and 24% by 2030, according to its 5th Strategic Energy Plan.

New research shows plummeting clean energy prices mean China could reliably run its grids on at least 62% non-fossil electricity generation by 2030, while cutting costs 11% compared to a business-as-usual approach.

AUSTRALIAN OUTLOOK

The Australian Government is leading the pack in legislation to support a decentralised energy exchange and the two-way energy marketplace with ongoing projects in Victoria, ACT, and South Australia.

2030 Renewable Energy Targets by state (as % of total energy generation):
South Australia **net 100%**, Victoria **50%**, Queensland **50%**, NSW **46%**

A\$520M Investment in manufacturing to reduce use of gas and build new clean-technology export industries.

Jobs Created: 22,000

A\$500M Investment in making Australia a leading global battery manufacturer.

Jobs Created: 7,800

A\$500M Investment in subsidising solar for community organisations.

Jobs Created: 5,000

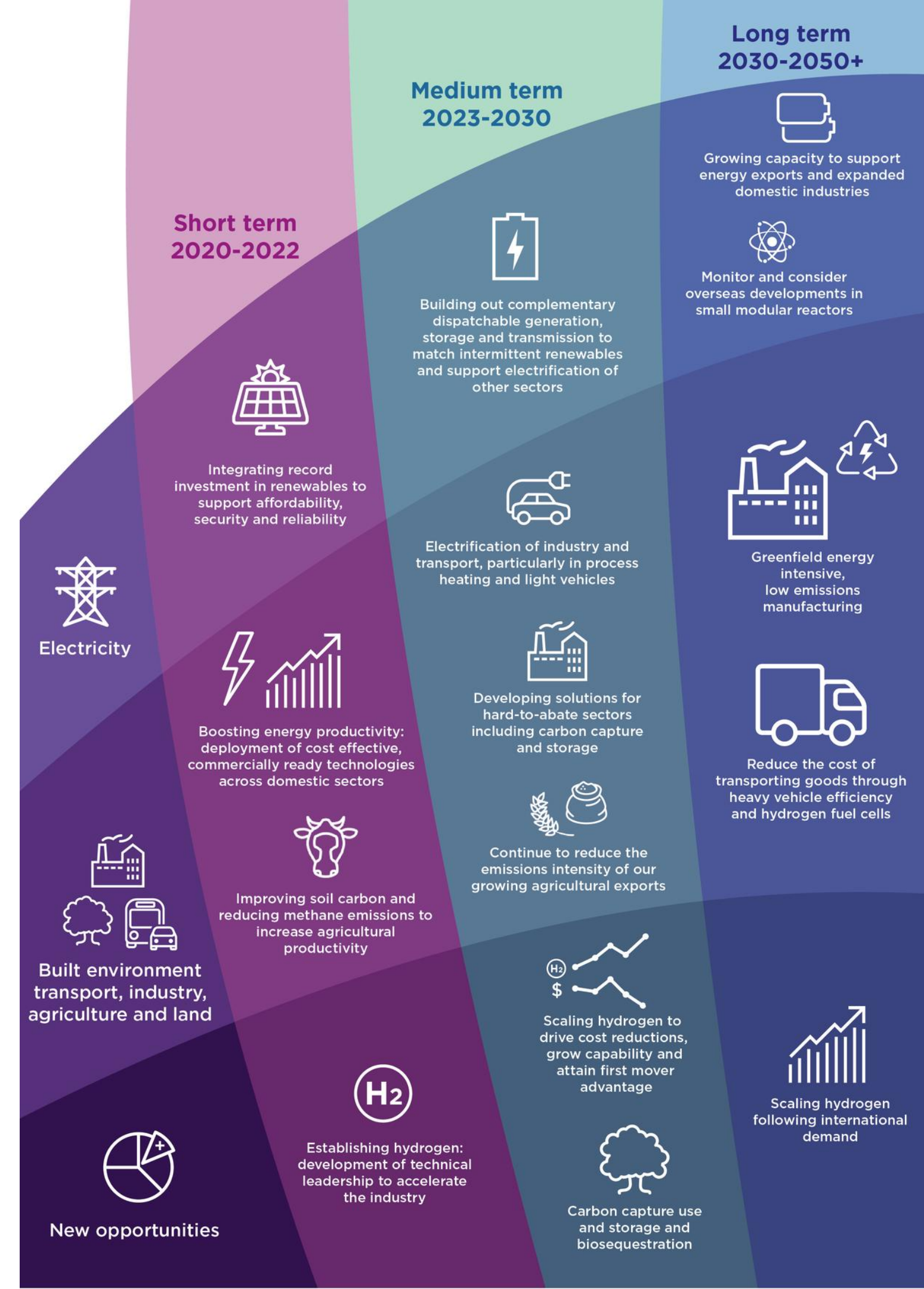
A\$240M Investment in making all buses electric.

Jobs Created: 10,000

A\$225M Investment in accelerating the renewable hydrogen industry.

Jobs Created: 1,200

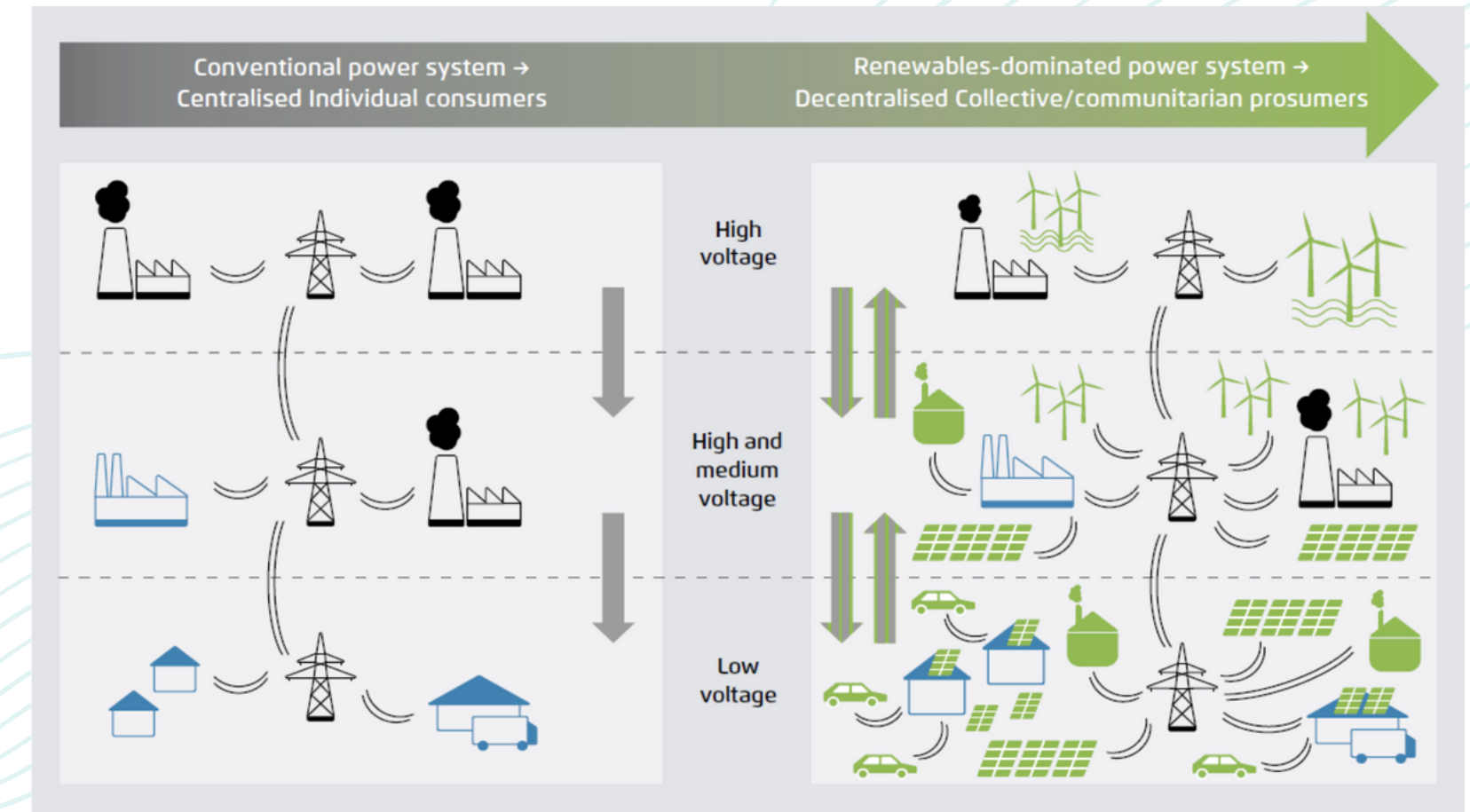
Source: Australian Renewable Energy Association. Read [here](#)
Source: abc.net.au. Originally created by Ernst and Young. Read [here](#)
Source: Industry.gov.au. Australia's Technology Investment Roadmap
Source: Clean energy regulator, September 2019
Source: Technology Investment roadmap to low emissions.
Source: Energy Matters, Read [here](#)



SO WHAT IS THE PROBLEM?

- Traditionally, energy was generated from fossil fuel sources, with power plants built close to the energy source, but far from the consumers, **incurring high energy transmission costs**.
- **Tracking and tracing is not possible** in a centralised marketplace. There is no way of knowing if energy is generated from renewable sources.
- **Huge costs** associated with auditing and issuing carbon credits.
- **No real time data** on measuring government green initiatives.
- **No ability** to sell Peer to Peer. Power produced and sold to the grid **does not** achieve market price.
- **Lack of flexibility** due to long-term manual Power Purchase Agreements (PPA's). Consumers need to pay a premium for short-term energy needs.

Click [here](#) to view video on problem-description .





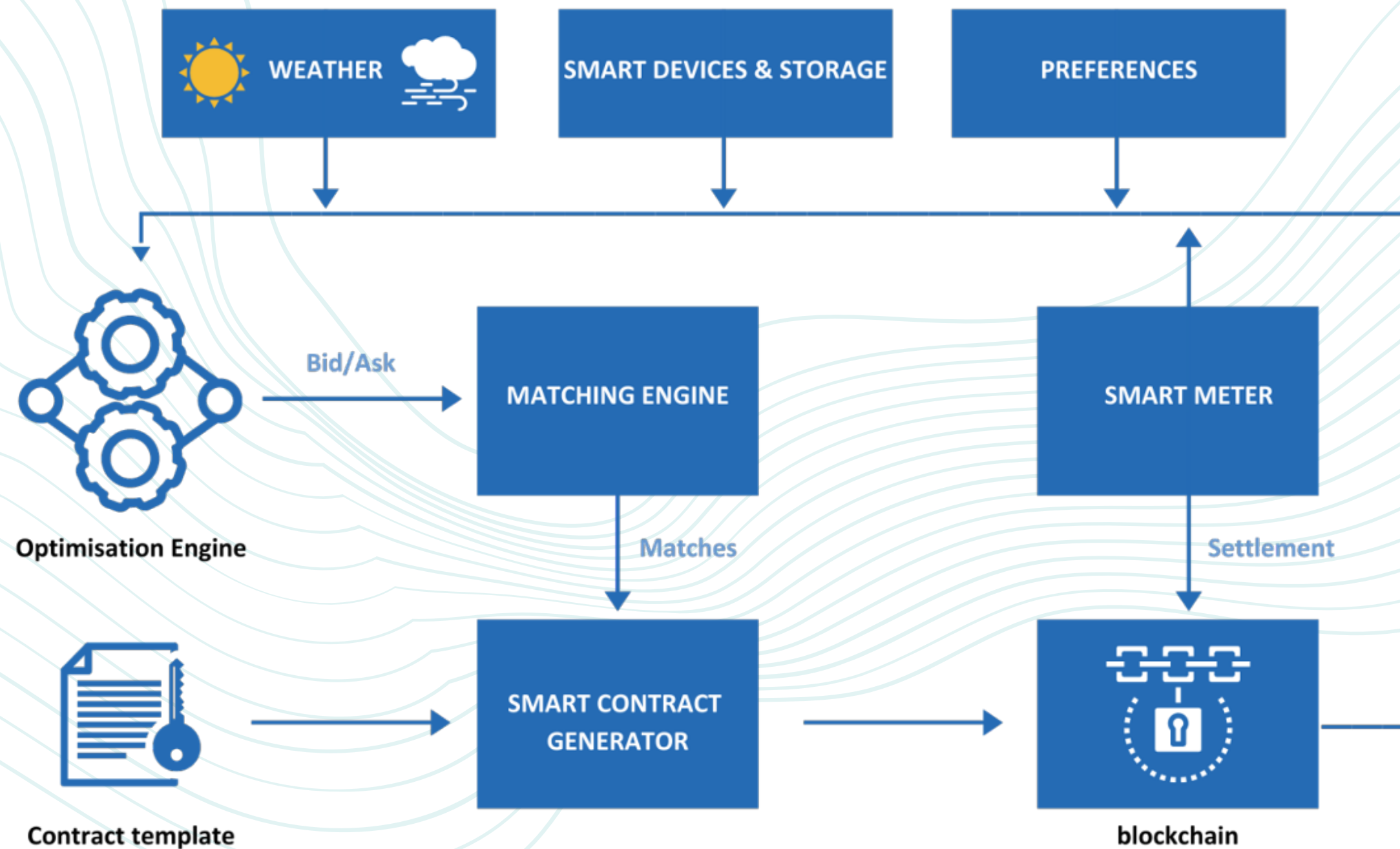
FREE TRADE ENERGY IS HERE.

TYMLEZ provides a **decentralized** green energy trading platform that allows the tracking and tracing of green energy units for commercial and domestic customers who want to trade energy to fulfil their energy needs.

Our two-stage smart contract backed by blockchain allows consumers and 'prosumers' (consumers who produce electricity) to firstly engage and agree on energy price and quantity based on geographical location; and secondly, once the settlement period is finalised, the trade is closed, locked into the blockchain and a green energy certificate is issued.

Operating existing software for grid balancing and virtual power plants can plug directly and seamlessly into our platform.

TYMLEZ'S P2P BLOCKCHAIN-ENABLED ENERGY TRADING MARKETPLACE.





BENEFITS OF TYMLEZ'S P2P BLOCKCHAIN-ENABLED ENERGY TRADING MARKETPLACE.

Our platform is capable of handling more than **10,000** transactions per second. It is fully **secure, transparent and extremely scalable**

Our eco-system contains:

- Buyers (municipalities, Fortune 500 firms, smaller utilities),
- Sellers (municipalities, utilities, investment groups, and prosumers)
- Storage companies (battery farms etc)

1

TYMLEZ platform allows peer to peer trading. Users have the ability to trade excess energy via smart meters with other users in a secure environment.

2

TYMLEZ, as part of its two-stage smart contract, tracks and traces green energy units from origin to usage point and issues green energy certificate.

3

The TYMLEZ platform is extremely scalable and gives true real time transparency on all trades which are stored on the blockchain forever.

4

TYMLEZ allows existing grid software to be plugged into our platform to give utilities full transparency and flexibility.

5

TYMLEZ's automatic power purchasing agreement allows producers instant access to large commercial buyers.

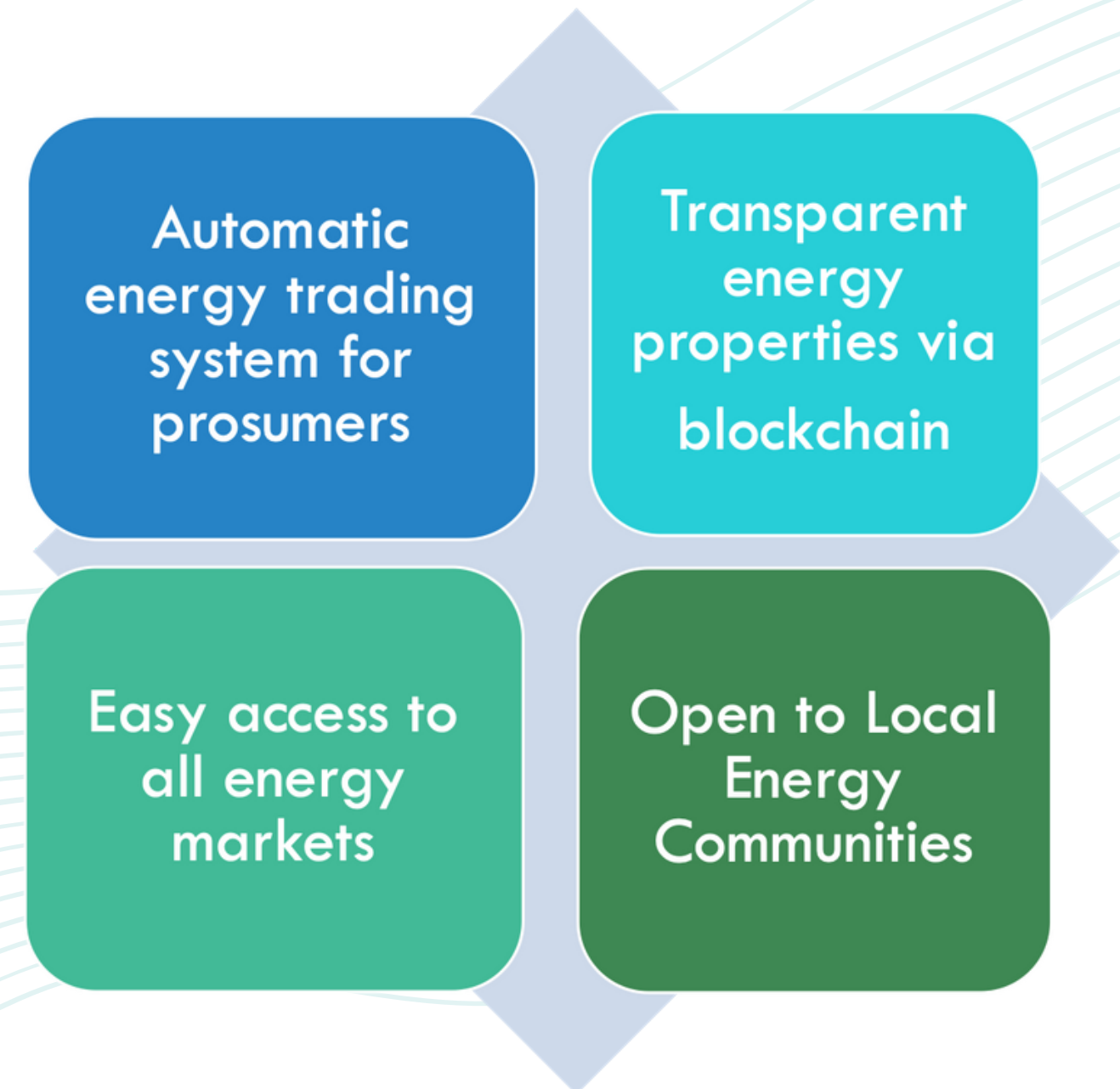
6

Through the trade being fully automated, transparent, incorruptible and irrefutable on the blockchain it is a true report for the issuance of Carbon Credits.

TYMLEZ HAS BEEN LEADING THE MARKET IN P2P ENERGY TRADING.

TYMLEZ joined forces with the University of Groningen, the FOCAFET Foundation, VU Amsterdam and DNV-GL **two and half years ago** to help create a new kind of energy trading market. This automated exchange enables energy consumers who produce electricity ("prosumers") to sell excess energy to those who need it. This energy market can also be used for the energy sharing between members of a network. This energy market comes in the form of an energy-trading platform, called **OurEnergy**.

- The OurEnergy project envisions a new energy market that increases the effective utilisation of local renewable energy sources through a platform designed for peer-to-peer trading of energy.
- The trading platform, built on top of the TYMLEZ platform, introduces a new market where energy can be exchanged among members of a local energy community, for example, and uses blockchain technology to provide full transparency and guarantees about the origin of energy.
- With this platform, prosumers can sell any excess supply, and consumers can buy energy directly from the source for immediate consumption or for later consumption or even sale at a later point in time.



TYMLEZ IS LEVERAGING THIS EXPERTISE IN AUSTRALIA.

- Tyalgum is a rural village located in north-eastern NSW. Its energy project powers the entire town with 100 percent renewable energy and is looking into , one day, selling excess power to the wider local area, turning Tyalgum into a community-owned energy retailer in its own right.
- To facilitate trading inside the community, as well amongst other communities, the TYMLEZ decentralised energy marketplace was selected by Tyalgum Energy as its preferred partner.
- The TYMLEZ Energy marketplace will enable the inhabitants of Tyalgum to trade energy directly with each other, without the need of an intermediary who handles the transactions.
- Tyalgum energy project commenced in 2015 and was aimed to help the town's inhabitant go off-grid and leverage 100% renewable energy. Over the past few years, the project gained international attention for its ambitious and disruptive project innovation.
- The next step and what excites Tyalgum about TYMLEZ, is to enable all participants to trade energy amongst themselves, without the need for an intermediary, as the incumbent energy companies.
- The trading will be facilitated by the TYMLEZ energy marketplace, where in the upcoming project, the marketplace will be tightly integrated into the various energy components such as solar panels and smart meters to enable secure and transparent trading.



Key Vertical #2: TELEMATICS

Blockchain offers a solution for the privacy issues in the telematics market

"The automotive market of the future will be starkly different from that of today. It will need to be more integrated and offer on-demand and personalised services that will include autonomous, shared and connected cars. Blockchain has the potential to play a major role in underpinning the industry transformation that is coming."

- Deloitte, 2020

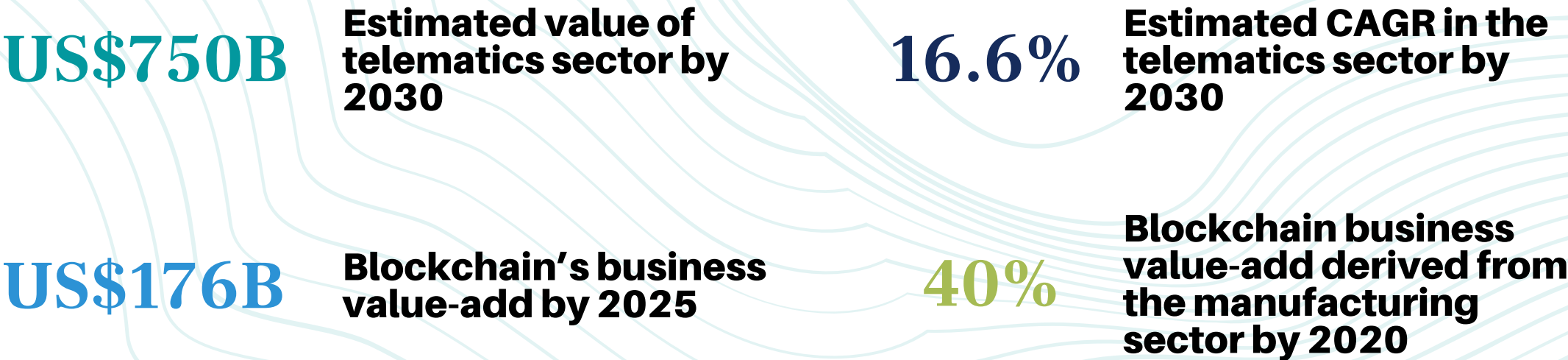


TYMLEZ'S BLOCKCHAIN MARKETPLACE

IS SCALABLE TO TELEMATICS

According to a 2020 report by Deloitte, a tipping point is to be expected within the next five years, due to the combined impact of changes in automotive ownership and sales models, and greater understanding and adoption of blockchain.

The result of this is expected to be wholesale adoption of blockchain following a period of trials and pilots.



Source: Business Wire. Read [here](#)
Source: Deloitte: Accelerating technology disruption in the automotive market | Blockchain in the automotive industry. Read [here](#)





TYMLEZ'S BLOCKCHAIN MARKETPLACE

IS SCALABLE TO TELEMATICS

Blockchain could be used to:

- Share data on vehicles and their owners, manufacturers and dealers in a secure way
- Monetise that data and derive more value from vehicles by increasing utilisation and selling unused space through car sharinglink data held by different businesses across the industry including manufacturers, dealers, auto finance providers and insurers
- Enable consumers to save money through 'pay as you go' access to mobility and cheaper insurance based on usage and accurate data.

By 2030 forecasted to be \$750B industry driven by EV's, Autonomous Driving Vehicles, and Smart enabled vehicles via OBD, dashcams, and OEM & AM entertainment

Marketplace contains data gathered by above devices.

TYM Eco-system contains

- Buyers EV companies for recharging, Insurance & UBI companies, and consumer marketing firms-Sellers
- Manufactures & Software Companies, & Consumer Groups (AAA, RAC, etc)



TYMLEZ'S BLOCKCHAIN MARKETPLACE

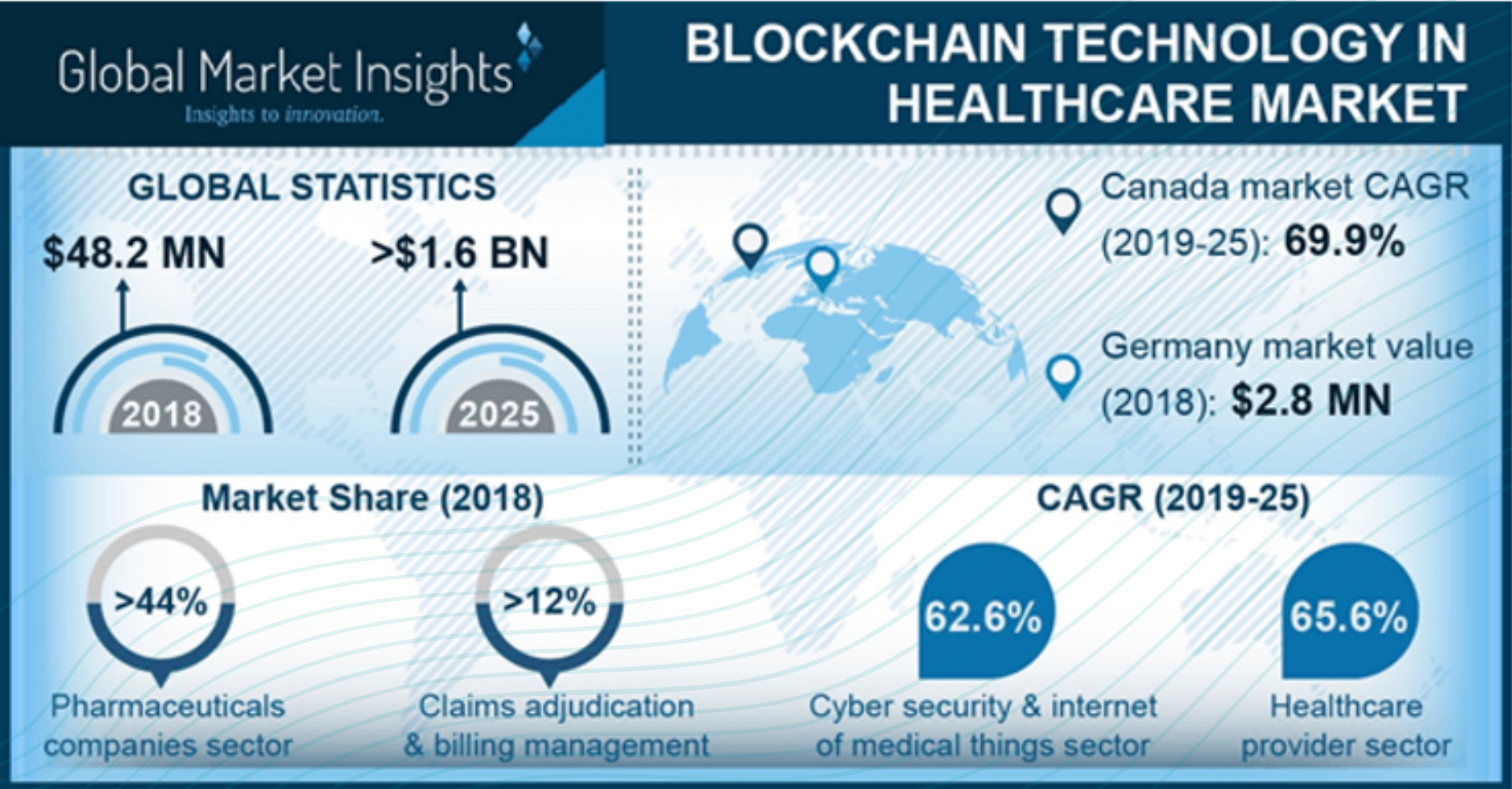
IS SCALABLE TO HEALTHCARE

Blockchain Technology in Healthcare
Market size was valued over USD
48.1 million in 2018 and is expected
to witness 65.0% CAGR from 2019 to 2025.

Rising awareness about the importance of blockchain technology for systematic collection of medical records and patient data will augment blockchain technology market growth.

Several organizations and hospitals are implementing blockchain technology to analyze, record and monitor patient information accurately.

In addition, rising risk of counterfeit drugs will boost adoption of blockchain technology in the upcoming years.





TYMLEZ'S BLOCKCHAIN MARKETPLACE

IS ALSO SCALABLE TO FINTECH & PAYMENTS

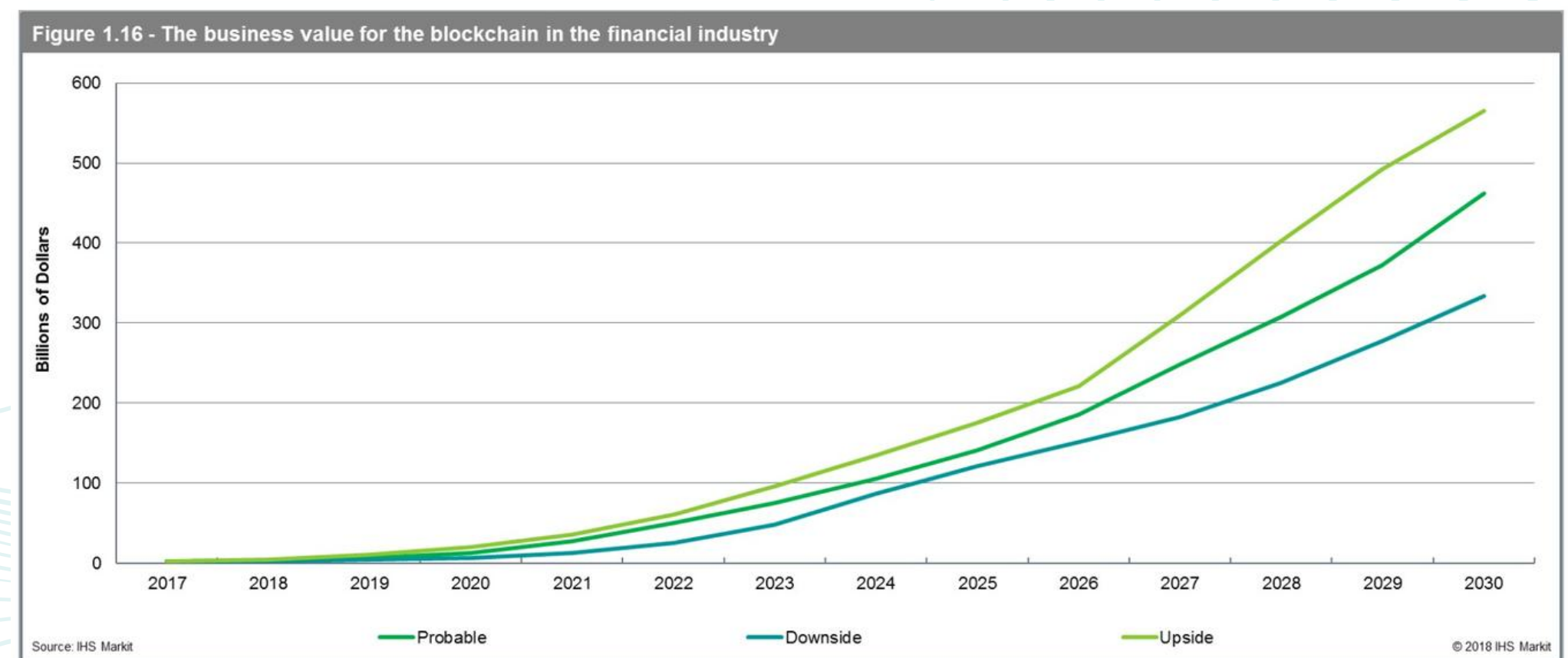
The global fintech industry is at an inflection point, with revenues set to grow from \$150 billion in 2018 to \$500 billion in 2030, according to research from UBS.

Crucial to this growth are millennials, who account for 27% of the world's population and are set to hold \$24 trillion in private wealth - roughly 1.5 times the US's national output in 2015.

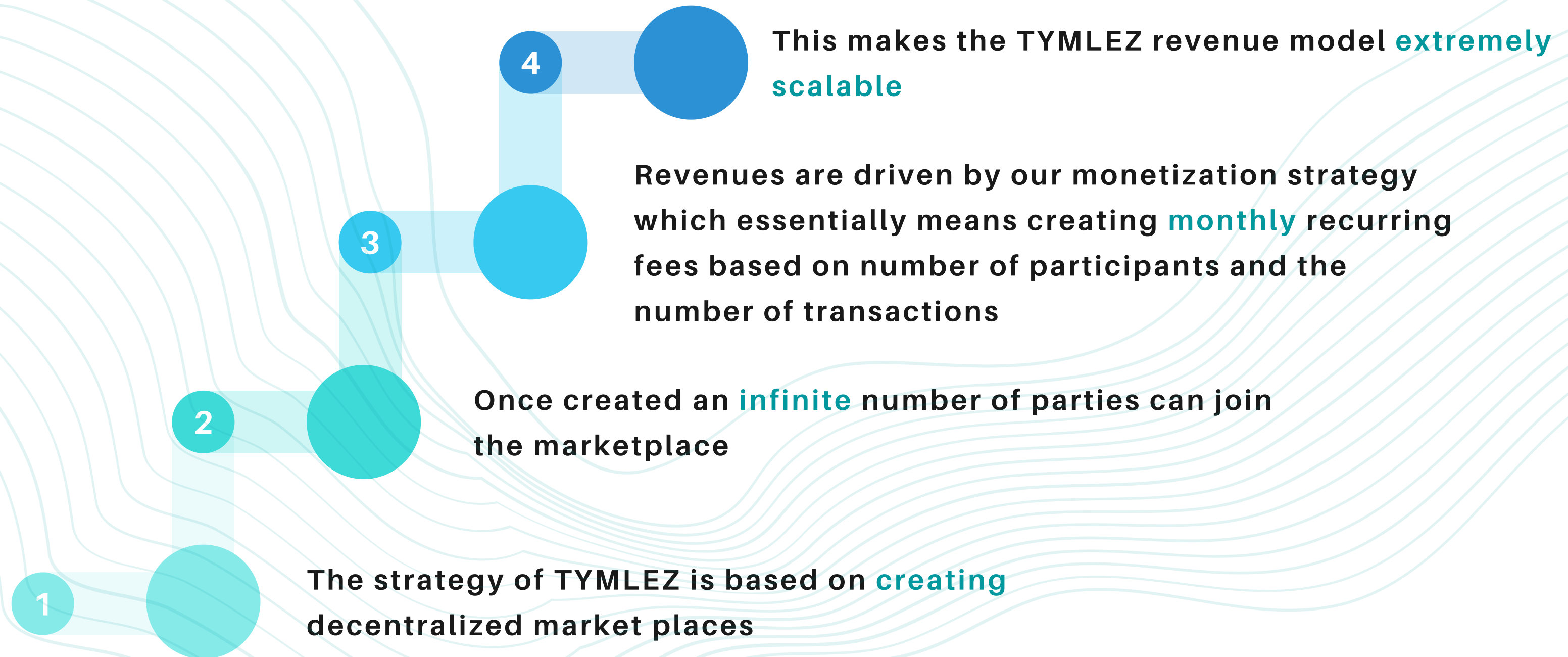
Blockchain is expected to generate annual economic value worth between \$300 billion and \$400 billion by 2027 across six major industries, led by financial services.

Another major area of fintech growth will be e-wallet payments. Asia Pacific will continue to lead the way in this sector, with 66% penetration by 2022, compared to just 33% in North America and 24% in EMEA.

Forecasting by scenario of blockchain's business value to the fintech industry:



TYMLEZ'S REVENUE MODEL



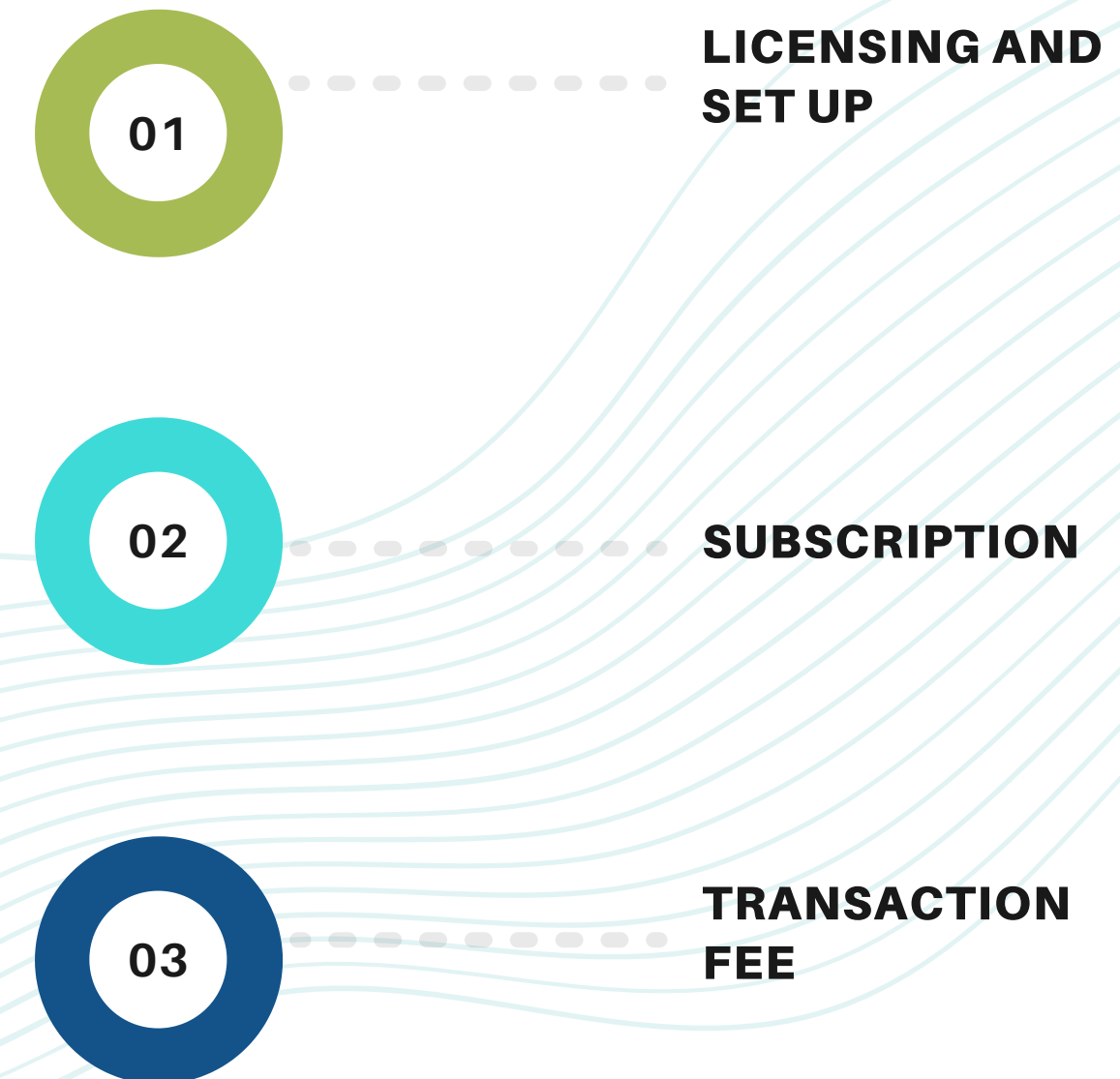
TYMLEZ'S

MONETISATION STRATEGY



Each TYMLEZ marketplace monetises in the following ways:

- Enterprises/Customers are onboarded with their energy, or respective data, and pay a set up fee ranging from €10,000 to €100,000.
- Enterprises/Customers pay a monthly fee to ensure universality of their data with other clients.
- Enterprises/Customers pay a transaction fee on all sales on a monthly or yearly basis. We envision most monthly contacts to span over a 1 to 3 year period.
- Transaction fees are scaled up depending on seller size and volume of data or energy.
- Customers can include Fortune 500 companies, Government, Enterprises, Utilities, and Energy Retailers.





Let's Talk

WE WANT TO HEAR FROM YOU!

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