GRAPEVINE WORLD - LIGHTPAPER

BREAKING DATA BARRIERS AND BUILDING A NEW HEALTH ECONOMY TO IMPROVE HEALTHCARE WORLDWIDE.

grapevine
WORLD

EXECUTIVE SUMMARY

GRAPEVINE WORLD ADDRESSES ONE OF THE BIGGEST BARRIERS TO CHANGE IN HEALTHCARE – LACK OF DATA INTEROPERABILITY.

While nearly every other sector churns with rapid transformation wrought from the insights of Big Data, healthcare stagnates, stunted by a legacy of bloated, piecemeal and uncoordinated technology development.

It is a legacy present in the smallest interactions to the largest infrastructure projects. The local hospital tabulates data in a different format to the local family doctor, leading to errors in medication prescription. The traveling expat cannot access his own health data when requiring treatment away from home.

In the WHO's 2017 report[01], assessing progress on the UN's Sustainable Development Goals,[02] lack of empirical data is cited as one of the major obstacles to formulating the necessary policy to "ensure healthy lives and promote well-being for all at all ages."

Solving the interoperability problem is a vital prerequisite for this kind of broad-scale data collection. If every health facility in Cameroon uses a proprietary IT system – unable to seamlessly exchange data with others – how can we hope to corroborate data on every case of tuberculosis?

Without this data, we do not fully understand the problem. Without a full understanding of the problem, we cannot formulate an appropriate response.

01) "http://apps.who.int/iris/bitstream/10665/255336/1/9789241565486-eng.pdf?ua=1", last accessed: March 16, 2018
02) "http://www.un.org/sustainabledevelopment/sustainable-development-goals/", last accessed: March 16, 2018

HOW GRAPEVINE WORLD SOLVES THE INTEROPERABILITY PROBLEM

Grapevine World is a decentralized, borderless ecosystem for the seamless, standardized exchange of healthcare data.

In it, health data is exchanged according to Integrating the Healthcare Enterprise (IHE) methodology[03] – an existing set of standards that has been used in federal level projects worldwide.

Patients gain ownership of their health data.

They can access their data at any time, anywhere. They decide who to share their data with, and for what use, granting explicit consent on a case-by-case basis - with privacy assured by full data anonymization.

Every use of their data is rewarded with the blockchain based Grapevine Tokens (Gvine), that can be used in exchange for products and services – apps, gadgets, medical advice and care.

Health organizations gain access to vast troves of previously inaccessible data.

Universities, Pharma, technology companies, medical device manufacturers, public sector entities and Healthcare Provider Organizations (HPOs) can all source data - with the authorization to use it - for research, education, software development and any other conceivable health project.

The introduction of Grapevine Tokens (GVINE) creates a new health economy.

Patients gain access to a wider, borderless choice of healthcare, able to tap into a globalized expert network for consultation and care; alongside apps and gadgets.

Organizations gain entry to an entirely new market, both B2B and B2C. Within Grapevine World, organizations obtain broader access to packaged data products - the end-result of research, perhaps - as well as the services of their peers.

This ecosystem encourages and facilitates collaboration, advancing medical research and stimulating new innovations in pharmaceuticals, service delivery, software, medical devices, consumer gadgets, biotechnology and many others not known yet.

By solving the interoperability problem, Grapevine World unleashes the power of data to radically transform the delivery of healthcare.

03) "http://www.ihe.net/", last accessed: March 16, 2018

WE ANTICIPATE THE
HEALTH DATA MARKET
TO INCREASE IN VALUE
FROM AN ESTIMATED
$54 BILLION TODAY TO
$123 BILLION BY 2023.
THE AIM OF GRAPEVINE
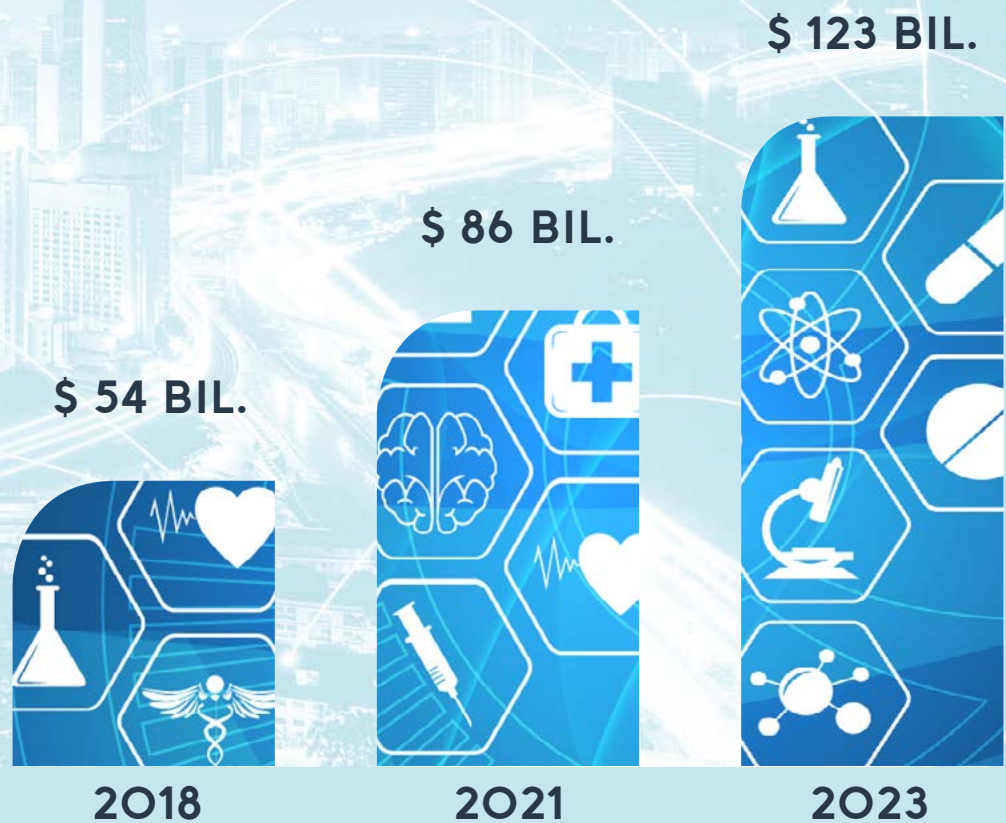WORLD IS TO CAPTURE
A SIGNIFICANT
PROPORTION OF THIS
MARKET

$ 123 BIL.

$ 86 BIL.

$ 54 BIL.

2018   **2021**   **2023**

Figure 01: Market potential

Figure 02: The two pillars of Grapevine World: IHE methodology and blockchain technology

HOW GRAPEVINE WORLD
IS BUILT

Grapevine World is built on two pillars:
- IHE methodology
- Blockchain technology

IHE methodology

IHE methodology rests on a proven set of data exchange standards, used for decades as the foundation for successful collaborative frameworks in the healthcare industry. The data exchange in Grapevine World (Grapevine Backbone) is based on these established principles.

The core is Integration Profiles. The IHE has a defined set of standards covering Actors, Transactions and Content. Profiles are built by selecting the appropriate combination of standards to fulfill the necessary function, packaging content in an agreed-upon format.

By maintaining adherence to these standards, a "common language"[04] is established, enabling different parts of a system - or different systems - to speak to each other.

The Grapevine World ecosystem will ensure interoperability by comprising only IHE approved vendors, applications, and architectures.

04) "https://wiki.ihe.net/index.php/PCC_TF-1/About", last accessed: March 16, 2018

Blockchain technology

The blockchain serves two purposes:

- Acting as facilitating infrastructure for the data exchange network.
- Providing incentives to participate in the network.

The blockchain provides a completely automated, decentralized system for participants in Grapevine World to enter into smart contracts with each other. Grapevine World is facilitator only.

The Grapevine Token (GVINE) is the key, acting both as mechanism and incentive. Transactions can only take place once the requisite number of GVINE has been transferred.

For example, if a medical university wants to crowdsource data for a clinical trial, it can search for patients matching its criteria. Once patients have agreed to participate, the data will be retrieved - but only unlocked with the transfer of GVINE.

Crucially, the system is secure-by-design. No private data is stored on the blockchain itself - only an auditable record of transactions and provenance. All patient data remains with the HPOs, preserving their existing accountability standards.

WHAT MAKES GRAPEVINE WORLD UNIQUE

WE ARE NOT THE ONLY PLAYERS BUILDING A HEALTH DATA ECOSYSTEM. HOWEVER, WE ARE UNIQUE:

// Grapevine World is more than an idea. Its constituent parts already exist.

// Our ecosystem is fully open. Global and accessible to anyone.

IHE standards have already been proven in large-scale projects across the globe. Blockchain technology is already widely used. The Grapevine World team combines decades of international experience in healthcare, technology, law and business.

Grapevine World is open. Most other solutions for health data interoperability are proprietary, which risks propagating the problem, as architectures develop in parallel silos. By contrast, we have deliberately chosen to operate as a non-profit foundation, to ensure Grapevine World remains open to all, driven only by the goal of improving health standards worldwide.
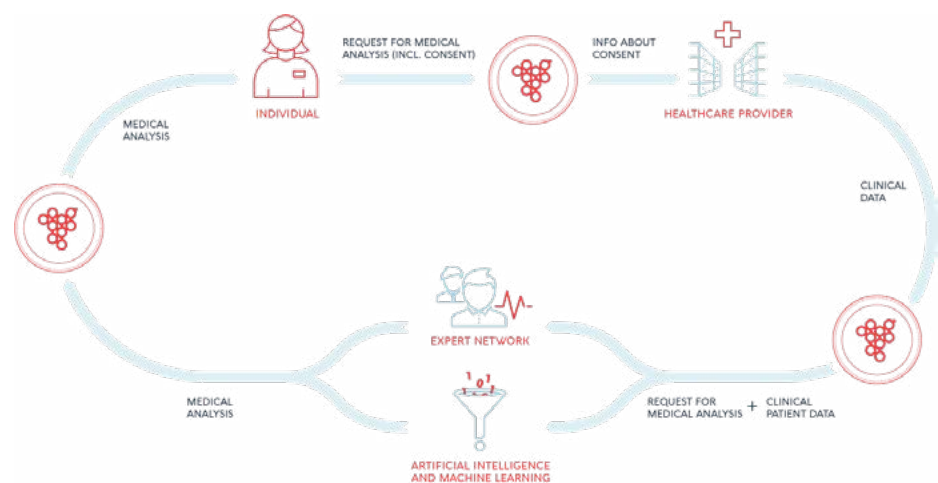
Grapevine World is designed to benefit everyone, and everyone is invited to join. The greater the diversity of participants, the healthier the ecosystem.

GRAPEVINE ELEVATES HEALTHCARE

**ACCESS & MANAGE
ALL YOUR
HEALTH DATA**

**ACCESS HIGH-END
HEALTH SERVICES**
(E.G. PERSONALIZED
MEDICAL ANALYSIS)

Figure 03: Use case "Personalized Medical Analysis"

**INTRODUCING
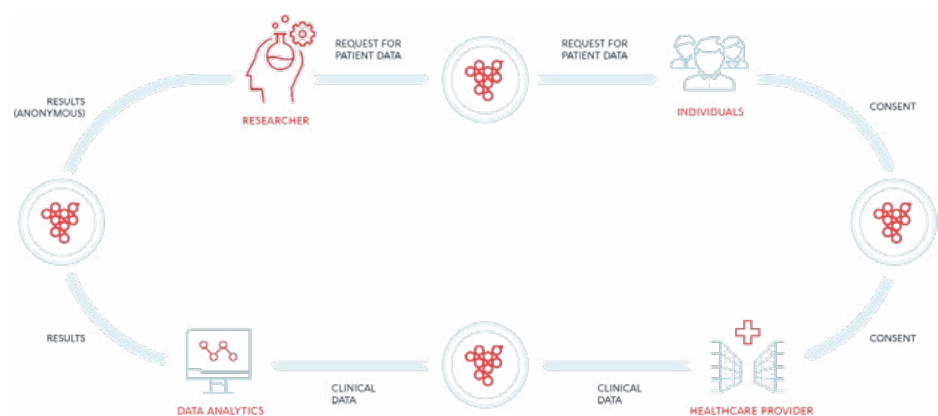MEDICAL
RESEARCH 4.0**

Figure 04: Use case "Medical Research"

DISTRIBUTION OF GVINE

The first GVINE will be distributed amongst early supporters and stakeholders of the existing ecosystem - non-governmental organizations (NGOs), governments, IHE, researchers, scientists, and companies.

An Initial Coin Offering (ICO) in July 2018 will widen participation by making GVINE available to the public, in exchange for digital currency.

Token Specifications	
Token Name	Grapevine Token
Ticker Symbol	GVINE
Blockchain Token Standard	ERC20 Ethereum
ICO Token Prize	$ 0.10 [05]
ICO Soft Cap	9.642 ETH [06]
ICO Hard Cap	68.939 ETH [07]
Total Amount of Tokens	825,000,000
Token Sale (incl. 3% Bounty Program)	45%
Unsold Tokens will be burned.	

Table 1: Token Specifications
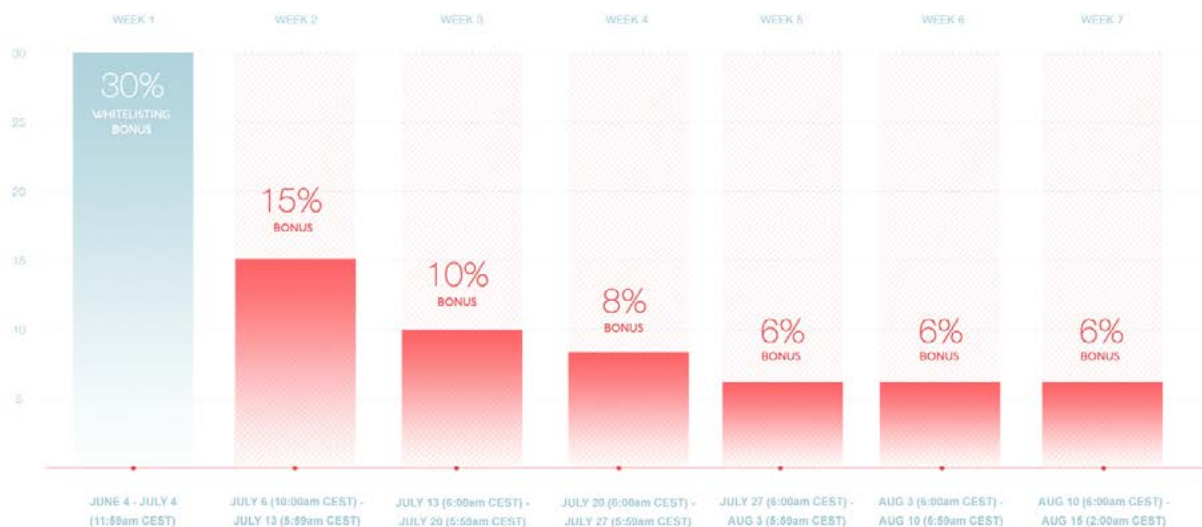
BONUS STRUCTURE

Figure 05: Bonus structure

If you have been whitelisted till July 4 you are entitled for the 30% whitelisting bonus. The whitelisting bonus is valid at any time during the ICO – but only till the soft cap is reached (USD 4,500,000). All bonuses are locked for 6 months after the end of the ICO.

05) 1 GVINE = 0,00021426122728831 ETH (USD exchange rate of date of deployment: July 4, 11am CEST)
06) (USD 4,500,000, exchange rate of date of deployment: July 4, 11am CEST)
07) (USD 30,000,000, exchange rate of date of deployment: July 4, 11am CEST)
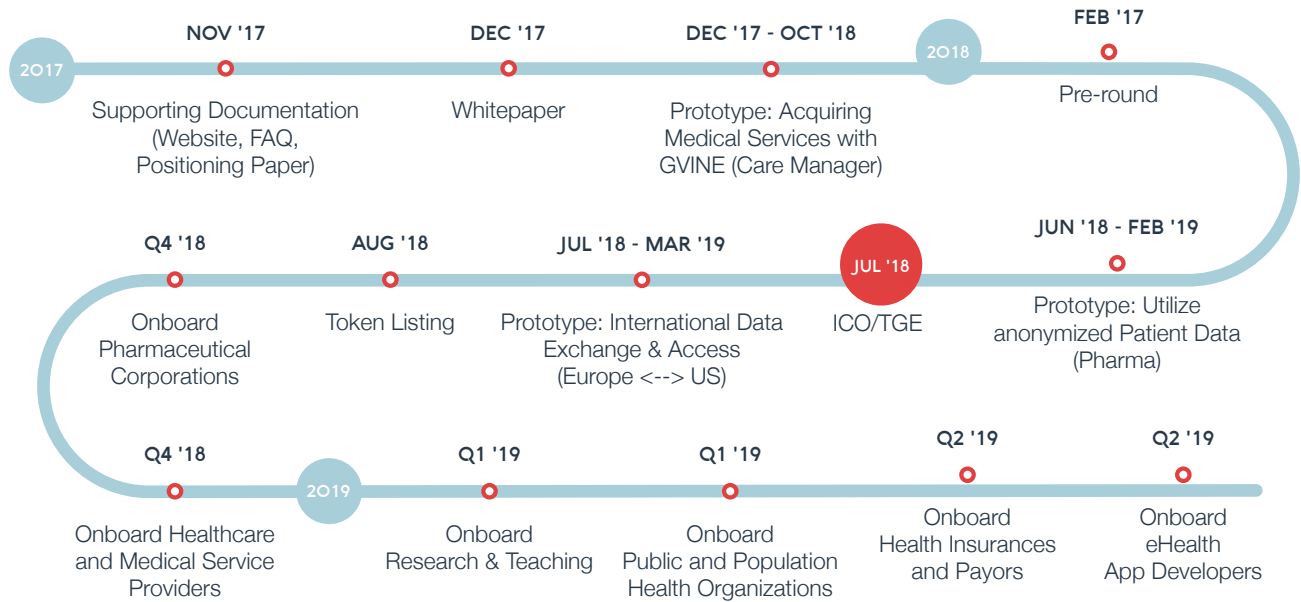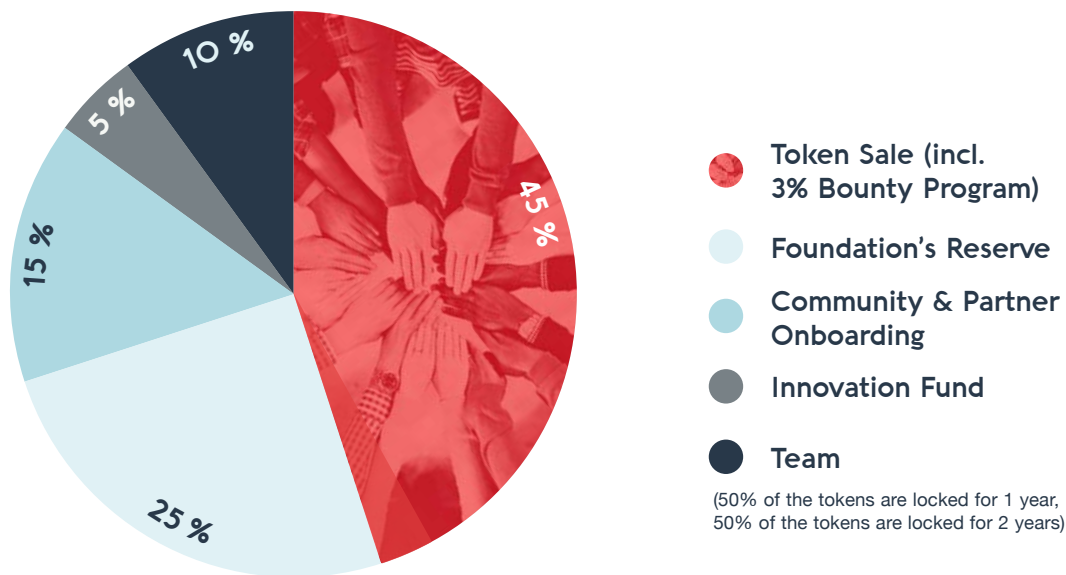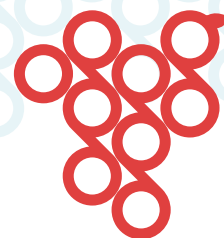
ROADMAP

NOV '17
Supporting Documentation (Website, FAQ, Positioning Paper)

DEC '17
Whitepaper

DEC '17 - OCT '18
Prototype: Acquiring Medical Services with GVINE (Care Manager)

FEB '17
Pre-round

Q4 '18
Onboard Pharmaceutical Corporations

AUG '18
Token Listing

JUL '18 - MAR '19
Prototype: International Data Exchange & Access (Europe <--> US)

JUL '18
ICO/TGE

JUN '18 - FEB '19
Prototype: Utilize anonymized Patient Data (Pharma)

Q4 '18
Onboard Healthcare and Medical Service Providers

Q1 '19
Onboard Research & Teaching

Q1 '19
Onboard Public and Population Health Organizations

Q2 '19
Onboard Health Insurances and Payors

Q2 '19
Onboard eHealth App Developers

Figure 06: Roadmap

TOKEN DISTRIBUTION

10 %
5 %
15 %
45 %
25 %

- **Token Sale (incl. 3% Bounty Program)**
- **Foundation's Reserve**
- **Community & Partner Onboarding**
- **Innovation Fund**
- **Team**
  (50% of the tokens are locked for 1 year, 50% of the tokens are locked for 2 years)

Figure 07: Token Distribution

USE OF FUNDS

Pie chart values:
- 45 %
- 30 %
- 15 %
- 5 %
- 5 %

Legend:
- ● Connecting the Healthcare Landscape /Creating the Grapevine Backbone
- ● Marketing/Sales
- ● Business Operations
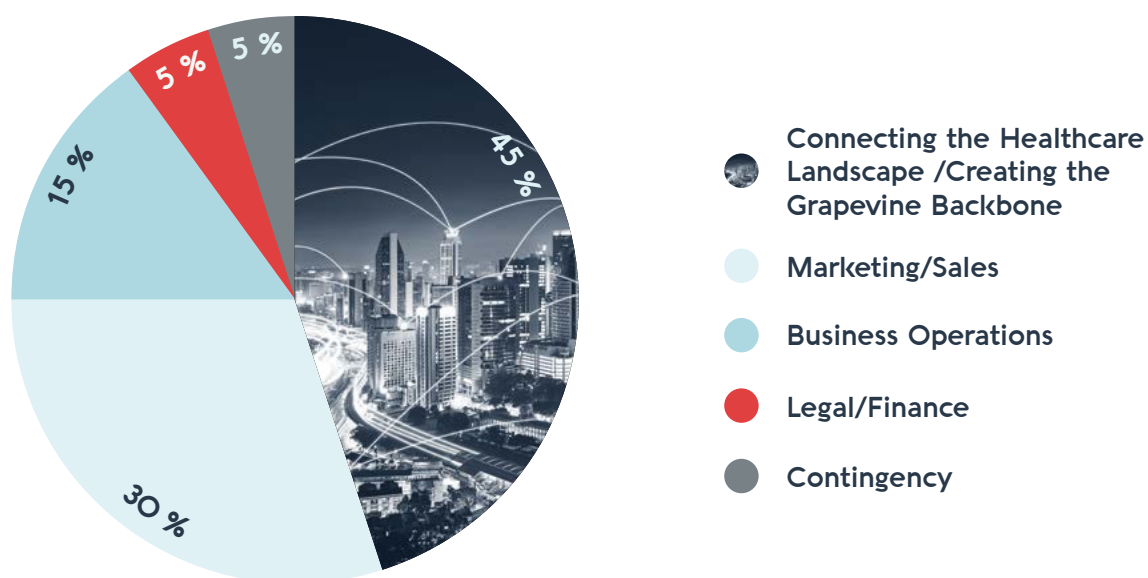- ● Legal/Finance
- ● Contingency

Figure 08: Use of Funds

The Grapevine Foundation will fund its development entirely from the proceeds of Grapevine Tokens.

As Grapevine World grows, the value of the ecosystem will increase in tandem, providing further funding for future investments. This will allow the Foundation to pay for certain operational services within the ecosystem in exchange for Grapevine Tokens (GVINE).

THE GRAPEVINE ICO TEAM

TEAM

MARTIN TIANI

Founder & Project Sponsor

WERNHARD BERGER

Project Lead & Co-Founder

JÜRGEN PRICKEN

Operations Lead & Co-Founder

WALTER SCHLESCHITZ

Marketing Lead & Co-Founder

MASSIMILIANO MASI

Blockchain, Architecture & Security Lead

ABDALLAH MILADI

Senior Blockchain & Healthcare IT Engineer

MARTIN RÜFENACHT

Community Building Officer

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Blockchain & Business Analyst

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Marketing & Project Assistent

ADVISORS

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New York University

PETER POKIESER

Medical Advisor

Unified Patient Program Lead
Medical University of Vienna

FREDRIK LINDEN

eHealth Advisor

Hamling (Owner and Consultant Hamling IT AB)

YAGUB RAHIMOV

Blockchain, Media and ICO Advisor

CEO/Co-Founder
7MARKETZ Group

PETRA WILSON

Data Privacy, Compliance & Governance Advisor

Managing Director and Co-Founder, Health Connect Partners sprl

MICHAEL BAYER

Corporate Partner Expansion Advisor

WOLFGANG SCHUBERT

Legal Advisor

Managing Partner
BLS Attorneys at Law

CONTACT

For more information about Grapevine World, the ICO in 2018, or if you wish to participate in any way, please contact us at *office@grapevineworldtoken.io* or visit our websites at *grapevineworldtoken.io* and *grapevineworld.com*

CORE OF INTEROPERABILITY //

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WORLD