PPPHealth4All

Platform for People-centered Partnerships

Effective Cross-Sector Collaboration
Breaking Silos and Enhancing Knowledge Exchange

HEALTH → PPPs → SDGs

Trustworthy - Inclusive - Sustainable - Decentralised

Who We Are?

SDG.17 Consulting GmbH

We operate at the crossroads between various sectors to promote SDG Agenda and, in particular, SDG.3.
We design new sustainable delivery models for public-private partnerships in the healthcare sector. We work to embed social impact in every business making and and advocate policies and practices that encourage the development of low-carbon, climate-resilient infrastructure delivered through sustainable and people-first public-private partnerships.
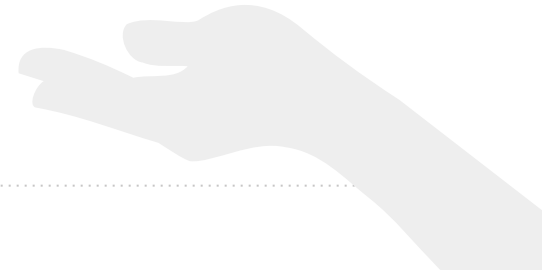
SDG.17 Consulting GmbH

SDG.17 Consulting GmbH is a member of German Health Alliance, Global Health Hub Germany, German PPP Association (BPPP e.V.), UN Women National Committee Germany e.V., German Federal Association for Sustainability, Society for International Development (Frankfurt Chapter) and Informal Interagency Task Team of the United Nations on Sustainable Sourcing in the Health Sector (SPHS).

We inspire for sustainability

SDG.17
CONSULTING

Our Leadership

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Linkedin

Eng. Natalia Korchakova-Heeb is an internationally recognised expert in sustainable infrastructure, public procurement, public-private partnerships and international technical assistance with experience in the public, private and non-governmental sectors.

- PPP-Speaker for the German Health Alliance

- Coordinator of working groups on partnership and on digital solutions for global health within the Global Health Hub Germany.

- Member of the Strategic Committee of the World Association of PPP Units an PPP professionals and is the member of the UNECE PPP Working Party.

- Twice fellow of the International Policy Fellowship (Hungary), a fellow of the Freedom Support Act Fellowship in Contemporary Issues (USA).

PPPHealth4All is a Winner

Global Health Hub Germany Competition
„New Ideas for Global Health"

13 January 2020, Berlin, Germany

UN Sustainable Development Goal.3 To Be Achieved by 2030

400 million people

have no access to basic healthcare

31-year gap

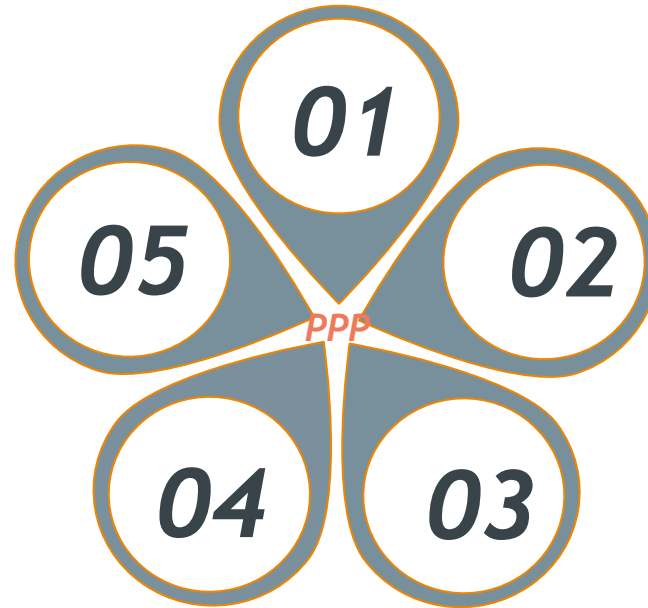between the countries with the shortest and longest life expectancies.

5 million people

die every year because of poor-quality health care in low- and middle-income countries

LEAVE NO ONE BEHIND

PPPs could help but *Strong Critique Prevents Its Wider Use*

Lack of transparency in PPP deals, conflicts of interest, corruption

Distrust of the 'fat cat' advisors/consultants at the expense of the consumer

01

05

02

PPP

04

03

Negative marketing for PPPs: Governments losing political

will to promote PPPs. PPPs are subject of politically motivated media coverage

Various silos and lack of communicaitons between stakeholders and end users

PPPs are expected to deliver value for money, but not necessary value for people
Lack of understanding what sustainability means in practical terms

PPPs could help but *Strong Critique Prevents Its Wider Use*

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GLOBAL VIEWS | WORLD BANK SPRING MEETINGS

Opinion: Public-private partnerships don't work. It's time for the World Bank to take action.

By *María José Romero* // 19 April 2018

Banking & Finance   Economic Development   Infrastructure   Institutional Development   Private Sector   United States

THE PARLIAMENT MAGAZINE
POLITICS, POLICY AND PEOPLE

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The problem with Public-Private Partnerships and the role of the EU

Written by Enrique Guerrero Salom MEP on 3 December 2018 in Opinion

Public-Private Partnerships are a deeply worrying trend and carry far more risk for the state than for the private companies involved, writes Enrique Guerrero Salom.

Table 3.   Myths about PPPs

Does the PPP reduce public spending, government subsidies, or user charges?	No. The public authority, or users, have to pay for the cost of building and the service whether it is done through a PPP or through the conventional option.
Does a PPP mean that the private company pays for the cost of building?	No. The cost of constructing the building has to be paid for out of public spending or user charges. The private company just borrows money – but the public have to repay that loan, with interest.
Does a PPP reduce the cost of running the service?	No. The cost of running the service is paid for out of public spending or user charges. And empirical evidence shows that private companies are usually no more efficient than the public sector – and a PPP usually costs more to set up and manage.
Does it allow the government to spend more money on other services?	No. The public authority has to spend at least as much on the PPP as it would on the conventional option – so it may even have to cut other services.
Does the PPP reduce borrowing?	No. The same amount of money has to be borrowed to pay for the construction of the building- or even more, because PPP construction costs are usually higher..
Does the PPP reduce government borrowing?	Yes –if statisticians agree that it can be treated as 'off-balance sheet'. But there is increasing uncertainty about whether PPPs can be treated as truly private borrowing.

PPPs come with a high cost for the public purse, an excessive level of risk for the public sector and, therefore, a heavy burden for citizens"

Our Solution

Transition to

People-Centered and Sustainable PPPs

A form of long-term contract, where a public entity transfers the provision of public health services to a private party. The long-term nature of the partnership creates an opportunity for both the public and private partners to maximise each other's strengths.

A form of long-term contract, where a public party delegate to a private party, provision of public health services to be delivered in line with Sustainable Development Goals. The projects are people–centric and carbon-neutral. The long-term nature of the partnership creates an opportunity for both the public and private partners to take advantage of each other's strengths and to deliver services to citizens in sustainable manner.

Why We Are Doing It?

- The healthcare expenditure has been rising across the world, but lack of public helath infrastructure will result in a hurdle to realize the third goal of the Sustainable Development Goals (SDGs) by 2030

- Governments have been looking for alternatives to close the financing gap and Public-Private Partnerships (PPPs) came up as viable solution

- However, there are challenges related to the execution of the PPP projects that are being undertaken in the healthcare ecosystem

- To fulfill this gap, SDG.17 Consulting GmbH has come up with an innovative. knowledge base platform PPPHealth4All to eliminate weak points in PPP healthcare approaches and to develop PPP healthcare ecosystem

- The platform, built on blockchain, aims to build trust among the stakeholders of PPP healthcare ecosystem and offers sustainable solutions

- Not only it will help implementation of PPP projects fairly and transparently, and will also reduce the preparation, transaction and operational costs

~ €7 trillion	3.9%
Global Spending on Health in 2017	Spending grew from 2000 to 2017 per year

Sources: United Nations, SDG.17Consulting GmbH, EU

1 749 PPPs	~ € 336 billion
In EU until 2016	Reached financial close in the EU (2016)

What is PPPHealth4All?

360 perspective for a PPP health ecosystem – breaking silos and connecting the dots

PPPHealth4All

- is a knowledge platform that connects stakeholders in the PPPs healthcare ecosystem.

- objective is to develop a seamless approach for preparation and implementation of people - centered PPP projects that are in line with the SDGs and enabling PPP projects and business models that provide clear societal, environmental and economic benefits.

- provides historical data and Informed decision-making, quality and timely dat, that is vital for enabling governments, international organisations, civil society, private sector and the general public to make informed decisions and to ensure the accountability of representative bodies.

- is a globally implemented blockchain-based solution, which will be operating as a not-for-profit, with aim to minimize PPP projects transaction costs and to break information silos. We bring blockchain technology to "end user".

Why in the State of Hesse?

The State of Hessen is keen on digitalization and innovations and recognises digitalisation as a challenge and as an opportunity. The Digital Hessen Strategy demonstrates the potentials of digitalisation for enhancing the quality of life and furthering the sustainable development of the State of Hesse. Digitalisation is not an end in itself – it must be to the advantage of society.

- Frankfurt-am-Main is a mobility hub which is easily accessible both nationally and throughout Europe with excellent traffic infrastructure via roads and airport.

- Frankfurt-am-Main is alpha city and the financial and banking center of Germany, and key stakeholders are located here (e.g. DZ Bank, KfW-IPEX Bank, Commerzbank, Commerzbank, DIF, KfW Development Bank, GIZ).

- The Hessian health industry is a dynamically growing industry. Gross value added grew by over 29% between 2008 and 2016. In 2016, this sector comprised of 446,000 workers and generated 26 billion EUR.

- Hesse is the center of the German health industry (FiZ, "Initiative Gesundheitsindustrie Hessen", Competence Center for telemedicine and e-health, big companies, such as Fresenius, B. Braun Melsinger, Merck, etc.)

Vision and Mission *Statements*

VISION

To achieve Sustainable Development Goal.3 by 2030 through facilitation of people-centered public private partnerships projects

SDGs

MISSION

To empower countries to improve their health services and healthcare infrastructure by providing an access to international experience, expertise and resources through on-line blockchain-enabled knowledge platform PPPHealth4All in order to facilitate development of a low-carbon, people-centered PPPs in the healthcare sector

Policy Context: *UN Sustainable Agenda 2030*

The United Nations Sustainable Development Goals number 3. Good Health and Well-being has been given a high priority. Achieving this goal comes with a huge price tag and commitment. We need to achieve SDG.3 by 2030!
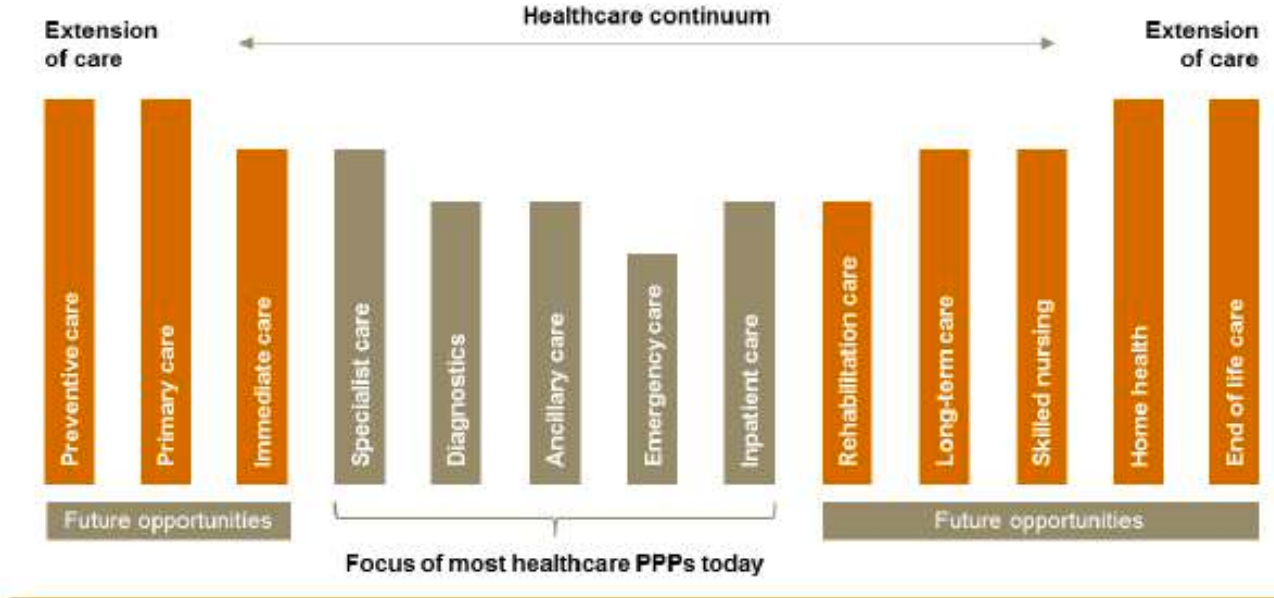
3 GOOD HEALTH AND WELL-BEING
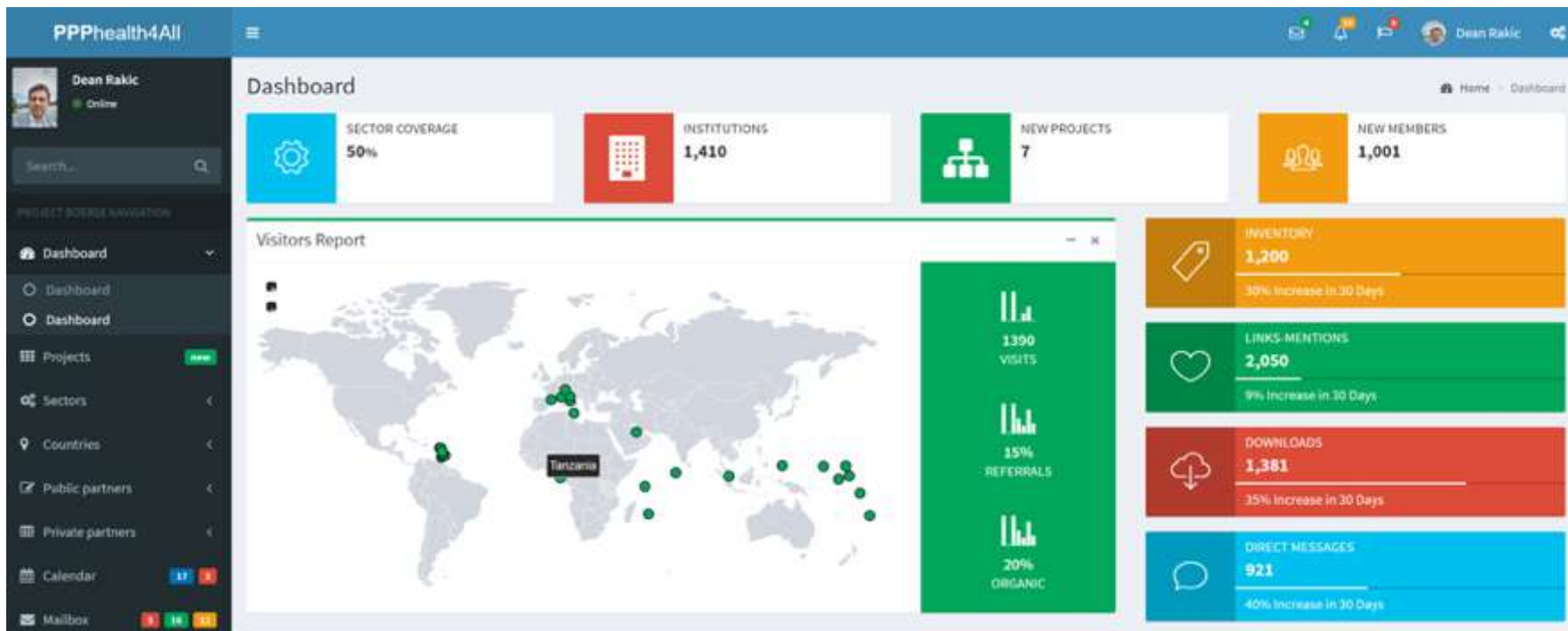
17 PARTNERSHIPS FOR THE GOALS

But how? The public -private partnerships could serve a vital role in bringing together resources, expertise, innovations and commitment of public and non-public actors.

PPP Healthcare Market *and its Potential*

Healthcare continuum

Extension of care — Preventive care, Primary care, Immediate care

Specialist care, Diagnostics, Ancillary care, Emergency care, Inpatient care

Rehabilitation care, Long-term care, Skilled nursing, Home health, End of life care — Extension of care

Future opportunities

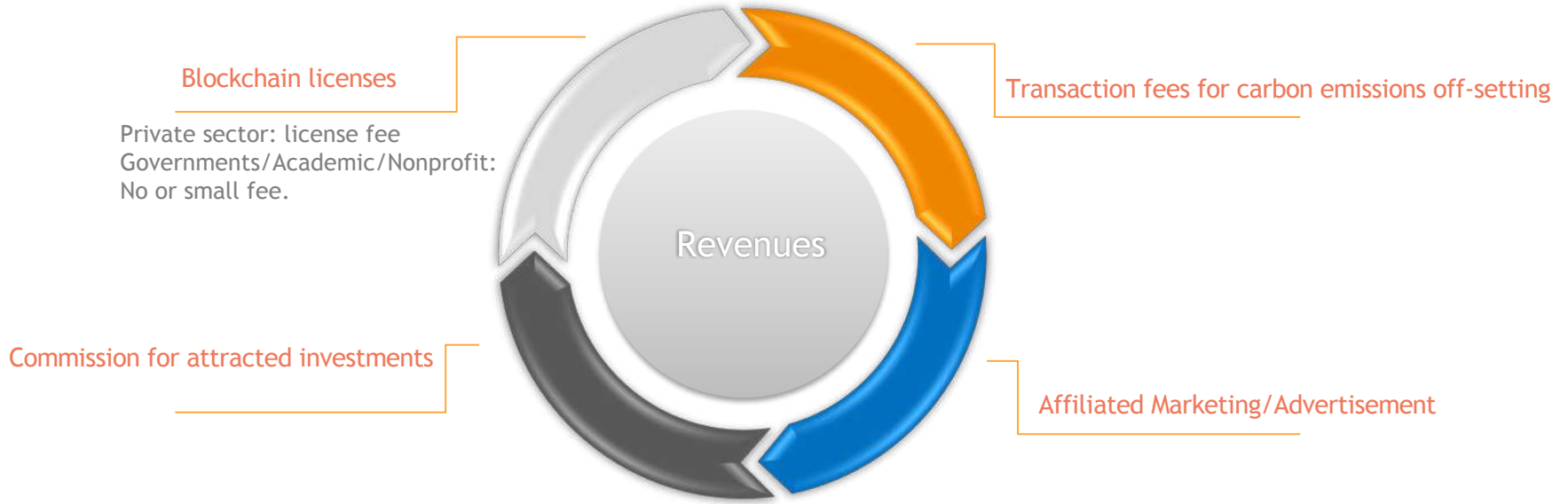Focus of most healthcare **PPPs** today

Future opportunities

Source: PPPs in healthcare: Models, lessons and trends for the future
Healthcare public-private partnerships series, No. 4, Report of PWC and UCSF

This Is How PPPHealth4All Will Look Like
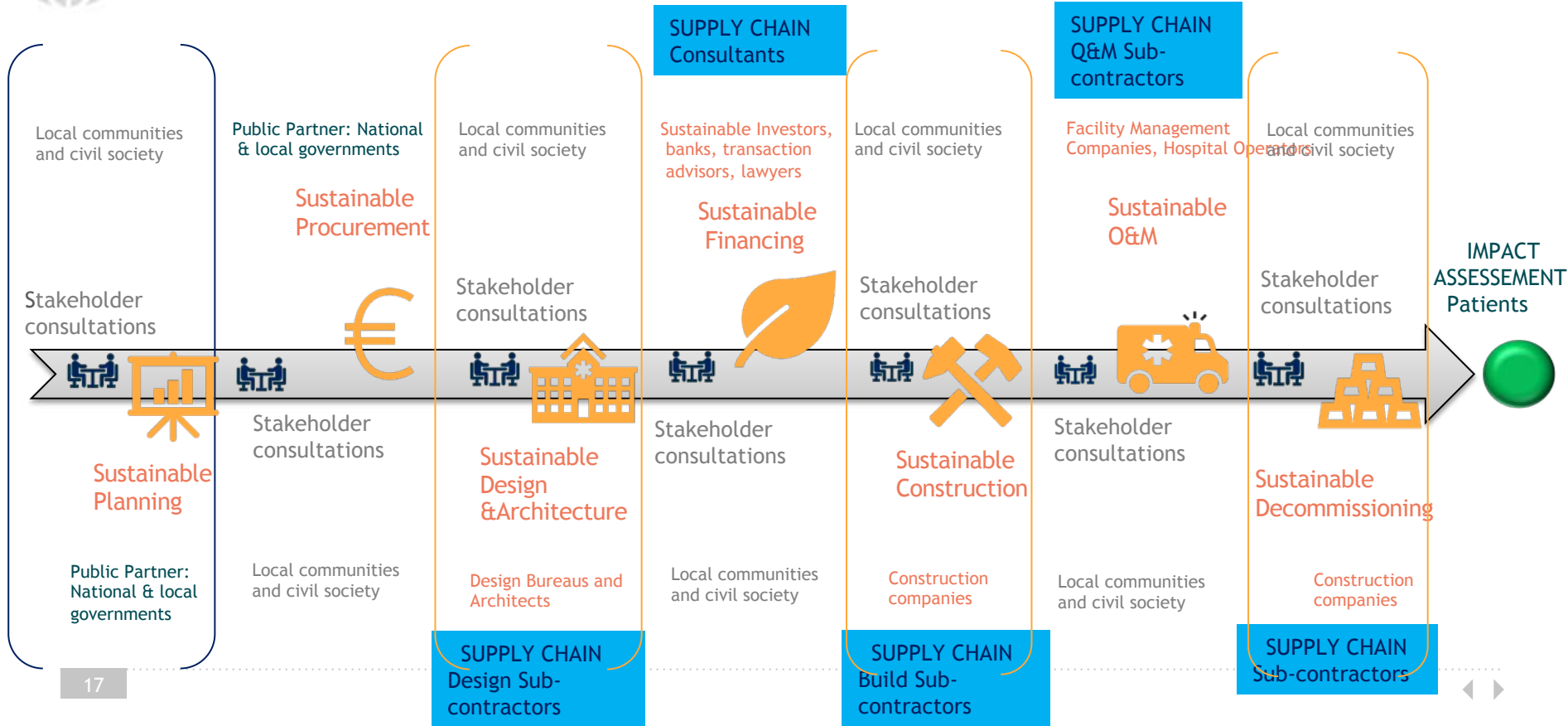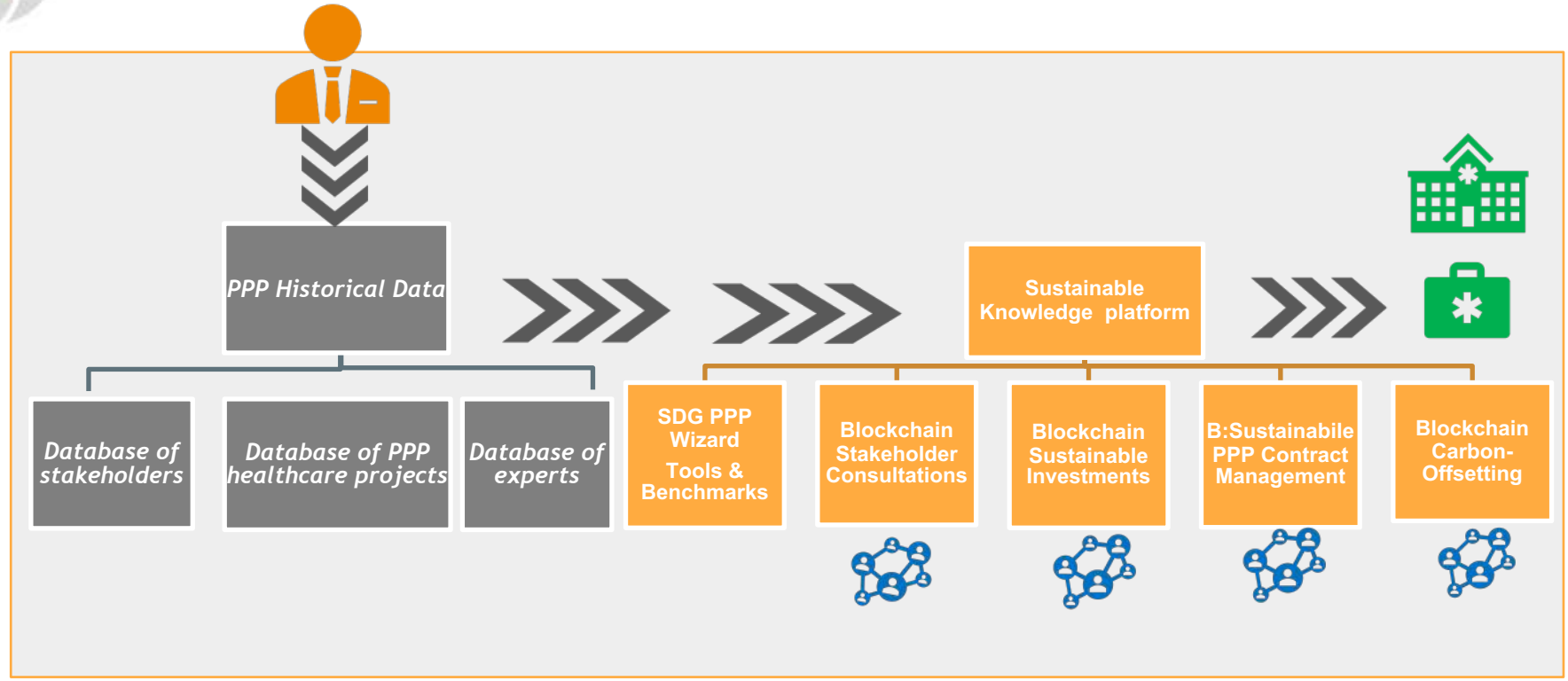
Blockchain licenses

Private sector: license fee
Governments/Academic/Nonprofit:
No or small fee.

Commission for attracted investments

Revenues

Transaction fees for carbon emissions off-setting

Affiliated Marketing/Advertisement

PPP Sustainable *Value Chain* (simplified)

SUPPLY CHAIN
Consultants

SUPPLY CHAIN
Q&M Sub-contractors

Local communities and civil society

Public Partner: National & local governments

Local communities and civil society

Sustainable Investors, banks, transaction advisors, lawyers

Local communities and civil society

Facility Management Companies, Hospital Operators

Local communities and civil society

Sustainable Procurement

Sustainable Financing

Sustainable O&M

Stakeholder consultations

Stakeholder consultations

Stakeholder consultations

Stakeholder consultations

Stakeholder consultations

IMPACT ASSESSEMENT
Patients

Sustainable Planning

Stakeholder consultations

Sustainable Design &Architecture

Stakeholder consultations

Sustainable Construction

Stakeholder consultations

Sustainable Decommissioning

Public Partner: National & local governments

Local communities and civil society

Design Bureaus and Architects

Local communities and civil society

Construction companies

Local communities and civil society

Construction companies

SUPPLY CHAIN
Design Sub-contractors

SUPPLY CHAIN
Build Sub-contractors

SUPPLY CHAIN
Sub-contractors

PPPHealth4All=Historical Data+Sustainable Solutions

PPP Historical Data

- **Database of stakeholders**
- **Database of PPP healthcare projects**
- **Database of experts**

Sustainable Knowledge platform

- **SDG PPP Wizard** — **Tools & Benchmarks**
- **Blockchain Stakeholder Consultations**
- **Blockchain Sustainable Investments**
- **B:Sustainabile PPP Contract Management**
- **Blockchain Carbon-Offsetting**

Core Services *To The Users*

Who is doing what?

Lessons learnt
Find a similar project idea

How to develop PPPs in sustainable way?

Methodology and
Navigator for development of
new partnerships in line with SDGs
and best practices

Data for *Research & Analytics*

Visualisation tools, reporting
tools, analytical tools

Find a good partner!

Match-making for partnering, PPP
assignments, investments,
research, etc.

Learn what is new and how to be a valid member of ecosystem!

Tailored Training
Peer-to-Peer Consultations

Interact and Transact with other members!

On-line Tools for Stakeholder
Consultations,
Carbon-footprint Assessements and
off-setting, Impact Assessment

Who Will Benefit *From The* PPPHealth4All?

Citizens/NGOs

- Improved healthcare services and solutions
- Improved access to information
- Participation in decision –making

National and local governments

- Navigation tools through set of recommendations, policy guidelines, standards to design and implement sustainable PPPs
- Peer-to-peer programme
- Tailor-made training
- Access to best practices
- Access to sustainable finance
- Improved dialogue with stakeholders

Private Partners & Investors

- Improved sustainability practices and positive marketing
- Increased pipeline of sustainable PPP projects
- New benchmarks of PPP health projects in line with SDGs and People-first approach
- Tender search
- Ideas for new partnerships
- Partners search
- Improved dialogue with stakeholders

Experts

- Body of knowledge related to sustainable partnerships in the health sector
- Database of experts
- Specialised training on new tools and methodologies
- Increased pipeline of PPP projects/tender search

Academia

- Data for research
- Partners for research
- Requests for research
- Research partnerships and joint publications
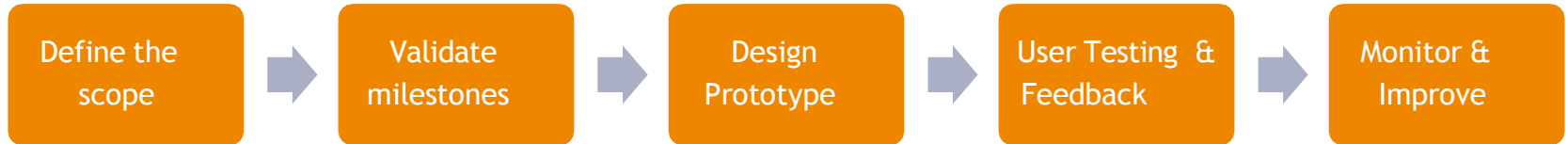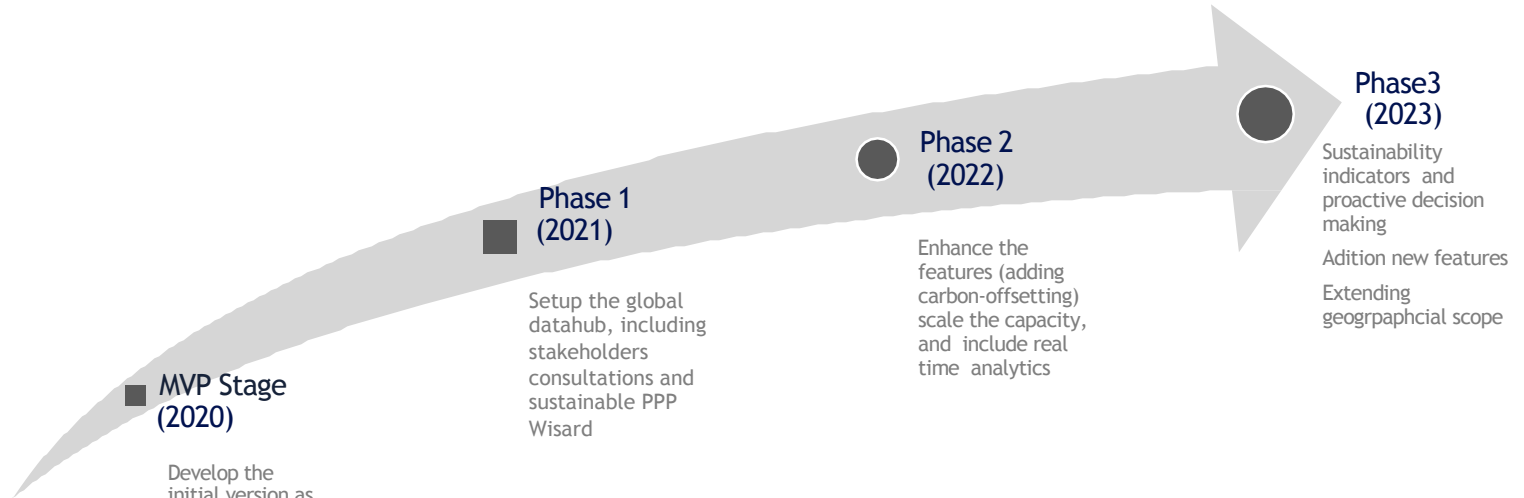- Improved knowledge of PPPs in the healthcare sector

- Trust: users control their data

- Decentralisation: Secure peer-to-peer transactions

- Inclusion: All take part in online society

- Sustainability: Reduced carbon footprint

- Resilience: secure and resilient infrastructure

PPPHealth4All Roadmap

Phase3 (2023)

Sustainability indicators and proactive decision making

Adition new features

Extending geogrpaphcial scope

Phase 2 (2022)

Enhance the features (adding carbon-offsetting) scale the capacity, and include real time analytics

Phase 1 (2021)

Setup the global datahub, including stakeholders consultations and sustainable PPP Wisard

MVP Stage (2020)

Develop the initial version as a pilot

| Define the scope | Validate milestones | Design Prototype | User Testing & Feedback | Monitor & Improve |

MVP Milestones

Process Audit
Check every tiny detail of the process and map the datapoints

Start: May 2020

UI Design Concept
Build a protype of the application that client can see and click

June 2020

Development
Define software architecture, create frontend and backend, connect databases, build first version

July 2020

Prototype
Include client feedback and make changes

September 2020

Beta Testing
Quality assurance and fixed all possible bugs for better customer experience
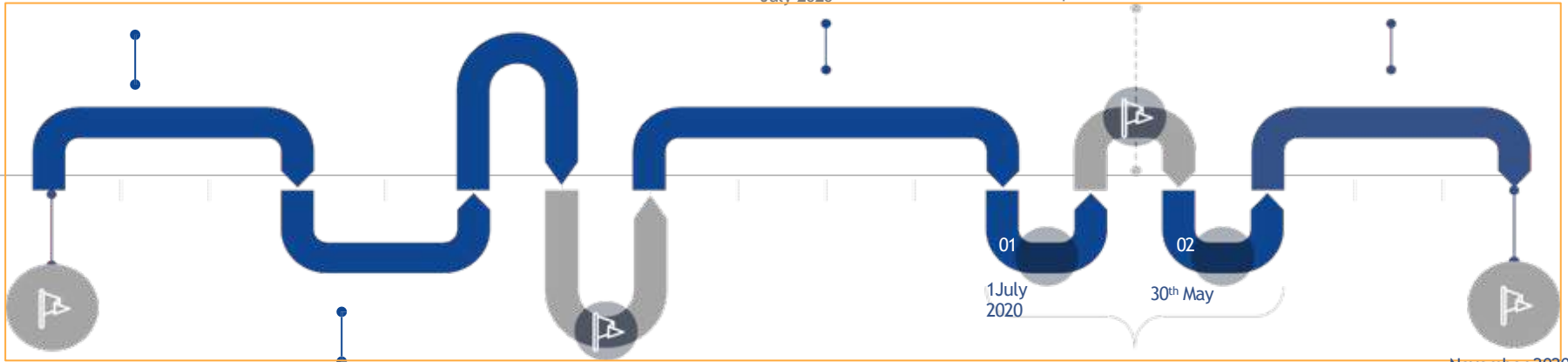
October 2020

Start
Planning in the beginning of February

UX Design
Make features and wireframes according to the user journey

Approval
Make changes according to the client needs & get product approval

01
1 July 2020

02
30th May

Client Feedback
Let client test the prototype and give feedback during the whole month

November 2020

Launch
The product is ready to use across the business

Proposed Technology

HYPERLEDGER FABRIC

Tech-Based Consortium: These are defined by organizations that have a need for transacting business with one another and they must agree to the policies that govern the network. Fabric architecture enables easy onboarding of various organizations into the Fabric blockchain network.

- Governance: Provide neutral, open & community-driven infrastructures. Supported by technical and business governance.

- Performance & Scalability: Transaction processing in 3 phases (endorsement, ordering, and commitment). This separation confers several advantages such as fewer levels of trust and verification are required across node types, and network scalability and performance are optimized.

- Security: Permissioned network with strong Identity Management. Anonymous client authentication with Identity Mixer.

- Privacy: Supports network where privacy is a key operational requirement using channels. Privacy between organizations within a channel is achieved using private data collections

Our Project Organisation

Backend Developers

Frontend Developers

Development Team Lead

Project Delivery Lead

System Architect

UX/UI Designers

Blockchain Experts

Quality Assurance Team

Project Manager

Cloud Engineers

Data Developers

DevOps Team Lead

Subject Matter Experts

Process Advisors

Training Developers
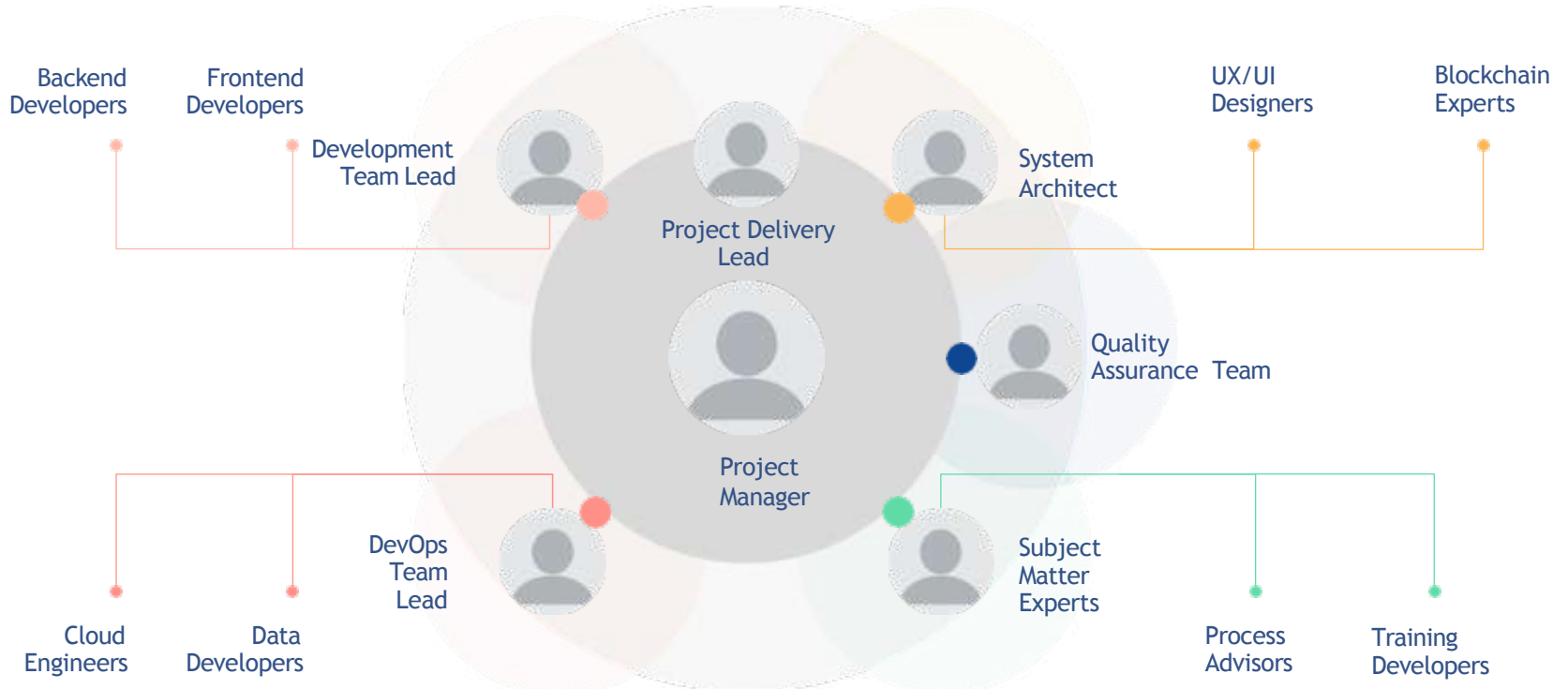
Technical Team

*T*ask	*Role*
Requirement / Planning	*Business Analyst*
User Experience (UX/UI)	*UX* Designer
Application Design	*UI* Designer
Software Architecture	*System* Achitecht
Frontend Development	*Frontend* Engineers (2)
Backend Development	*Backend* Engineers (2)
Database systems	*Data* Engineer
Blockchain Development	*Blockchain* Experts (2)
Cloud Hosting	*DevOps* Engineer
Testing & Quality Assurance	*QA* Test Engineer
Support Material	*Training* Developer
Project Management	*Project* Manager

Success Criteria

Quantative
Number of people-centered PPPs projects initiated through PPPHealth4All
Increase in number of PPP projects globally
Carbon footprint of PPP project registered at PPPHealth4All
Co2 off-set of PPP projects, (t)
Number of active users and members achieved
Number of licences purchased
Number of match-making agreements
Volume of sustainable financing attracted
Number of blockchain transactions

Qualitive
Progress on SDG.3, SDG.17 and other relevant SDGs
Improved communications between various groups of stakeholders
Improved public image of PPP modality
Improved dialogue between stakeholders
Improved transparency and decisio-making
Secure, privacy-aware, GDPR compliant data access, sharing and aggregation
Solutions are offered to leverage patient-generated health data in a decentralized
way for either research or commercial purposes

Our Scalability

Administrative scalability: the ability for an increasing number of organizations or users to access PPPHealth4All through purchase of licenses

Functional scalability: the ability to enhance the system by adding new functionalities (e.g PPP Contract Management)

Geographic scalability: the scope could be enlarged from the pilot countries to global

Extension from health sector to social infrastructure (schools, kindergartens)

Expected Impact

Improved individual and community self-reliance and participation in the planning, organization, operation and control of health care in concert with public and private providers of health services.

Boosted digital health sovereignty and created, leveraged knowledge, values, new technological opportunities and interconnection and pioneering decentralised solutions to global and/or local sustainability challenges

Healthcare is carbon free, the negative impact to environment is minimised

Adherence to the Principles of Digital Development

Principles of Digital Development designed by UNICEF and endorsed
by a large number of organisations, including SDG.17 Consulting GmbH

Design With the User User-orientated design
Design With the User Consider the structures and needs in each country, region and
community.
Design for Scale Securing funding or partners that take the initiative to new communities or
regions.
Build for Sustainability Building sustainable programs, platforms and digital tools to maximize
long-term impact.
Be Data Driven information is available to the people when they need it, and they are using
those data to take action.
Use Open Standards, Open Data,
Open Source, and Open Innovation An open approach to digital development can help to
increase collaboration in the digital development community
Reuse and Improve Taking the work further than any organization or program can do alone.
Address Privacy & Security Careful consideration of which data are collected
Be Collaborative Sharing information, insights, strategies and resources across projects,
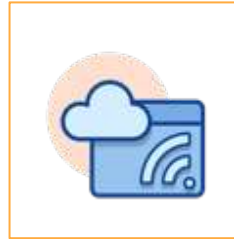organizations and sectors

Why to support PPPHealth4All?

More people-centered PPPs = Achievement of SDG.3 by 2030

Reduced PPP Project Preparation, Transaction and Operational Costs	Transparency, Immunity and Trust of Blockchain technologies	Open Knowledge, Open Source and Open Science concepts	Increased value of PPP healthcare ecosystem-improved dialogue	Integrating End Users into PPP value chain anddecision-making; Increased Impact

Value for Money + Value for People = Impact

*"There's always an opportunity
to make a difference..."*

Our *Contacts*

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