SAFE.

Creating information awareness in supply chains

The raw materials value chain needs more transparency, sustainability and risk management

SAFE creates value alongside megatrends

01 Digitalisation of trade

02 Supply chain transparency and provenance

03 Decarbonisation and ESG

04 Trade finance flight to safety

05 New commodity supercycle

Raw materials drive the new sustainable economy

$15 Trillion

total traded market size of commodities in 2021

$36 Trillion

total investment in sustainable ventures in 2021

Materials supply chains are typically complex

On average:

35 Companies   **150** People

200 Interactions   **40** Days

Production   Refining   Manufacturing   Transport   Assembly   Distribution
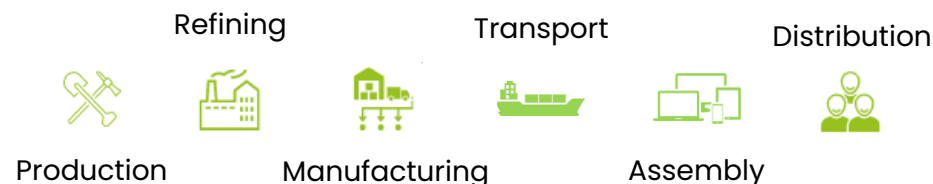
Key industry supply chain problems

Transparency
Data locked in paper, manual processes.

Efficiency
Poor access to supply chain information

Security
Susceptible to fraud and errors.

Risk Management
Inability to monitor, and mitigate risks

SAFE builds systems of bespoke apps which access a centralised coordinator and blockchain integrator of supply chain data, the SAFE Backbone, enabling physical commodity stakeholders to transform their supply chains for digital data capture, storage and sharing.

Enabling information awareness, your future.

+ Transparency, sustainability, efficiency

+ Adaptable to real-world supply chains

+ Real-time, secure sharing of data

+ Built on blockchain, cloud, IoT, mobile

+300 years, global track record in commodity supply chains, finance, technology, legal & compliance

Understanding, improving, delivering.

Business

- Commodity executives across commercial and operations
- Glencore, Trafigura, IXM, LDC, Credit Agricole
- Cross commodity and global record

Technology

- Thought leaders enabling emerging technologies
- Infusion, Avenade, Microsoft, Credit Suisse
- Multi technology and flexible design

Delivery

- Extensive experience implementing enterprise solutions
- Credit Suisse, Goldman Sachs, ABN Amro
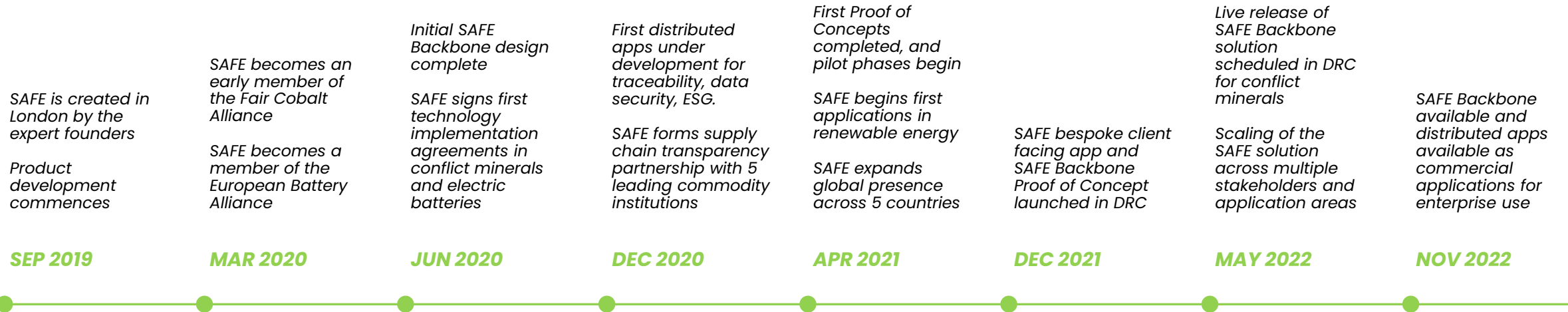- Project management and business analysis

Compliance

- Award winning experts in conflict minerals & compliance
- Squire, Patton, Bogg
- Global legal and regulatory frameworks

SAFE digital journey

Initial SAFE Backbone design complete

SAFE signs first technology implementation agreements in conflict minerals and electric batteries

SAFE becomes an early member of the Fair Cobalt Alliance

SAFE becomes a member of the European Battery Alliance

SAFE is created in London by the expert founders

Product development commences

First distributed apps under development for traceability, data security, ESG.

SAFE forms supply chain transparency partnership with 5 leading commodity institutions

First Proof of Concepts completed, and pilot phases begin

SAFE begins first applications in renewable energy

SAFE expands global presence across 5 countries

SAFE bespoke client facing app and SAFE Backbone Proof of Concept launched in DRC

Live release of SAFE Backbone solution scheduled in DRC for conflict minerals

Scaling of the SAFE solution across multiple stakeholders and application areas

SAFE Backbone available and distributed apps available as commercial applications for enterprise use

SEP 2019   **MAR 2020**   **JUN 2020**   **DEC 2020**   **APR 2021**   **DEC 2021**   **MAY 2022**   **NOV 2022**

Delivering traceability that accelerates progress towards more sustainable outcomes and, in parallel, delivers better business results and improved competitiveness.
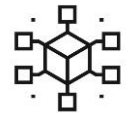
Proving to stakeholders that sustainability commitments are being delivered.

ESG> Environment, Social, Governance

Data & Technology
SAFE delivers data-driven evaluation and scalable value creation

Company Operating Model
SAFE reduces transaction costs and makes data externally verifiable

Collaboration & Partnerships
SAFE creates visibility for participants along the supply chain

Standards & Certifications
SAFE enables automated, immutable compliance

Digital visibility for greater sustainability, security and efficiency.

Tracking & Traceability

Sourcing
SAFE proves where material has come from and if it was ethically sourced

Processing
SAFE creates line-of-sight upstream and downstream of processing and conversion processes.

Storage
SAFE protects materials that are under care of third parties

Distribution
SAFE traces materials as they are on the move and captures related information

Consumption
SAFE makes the history of materials that make it into goods and products immutable

Recycling & Disposal
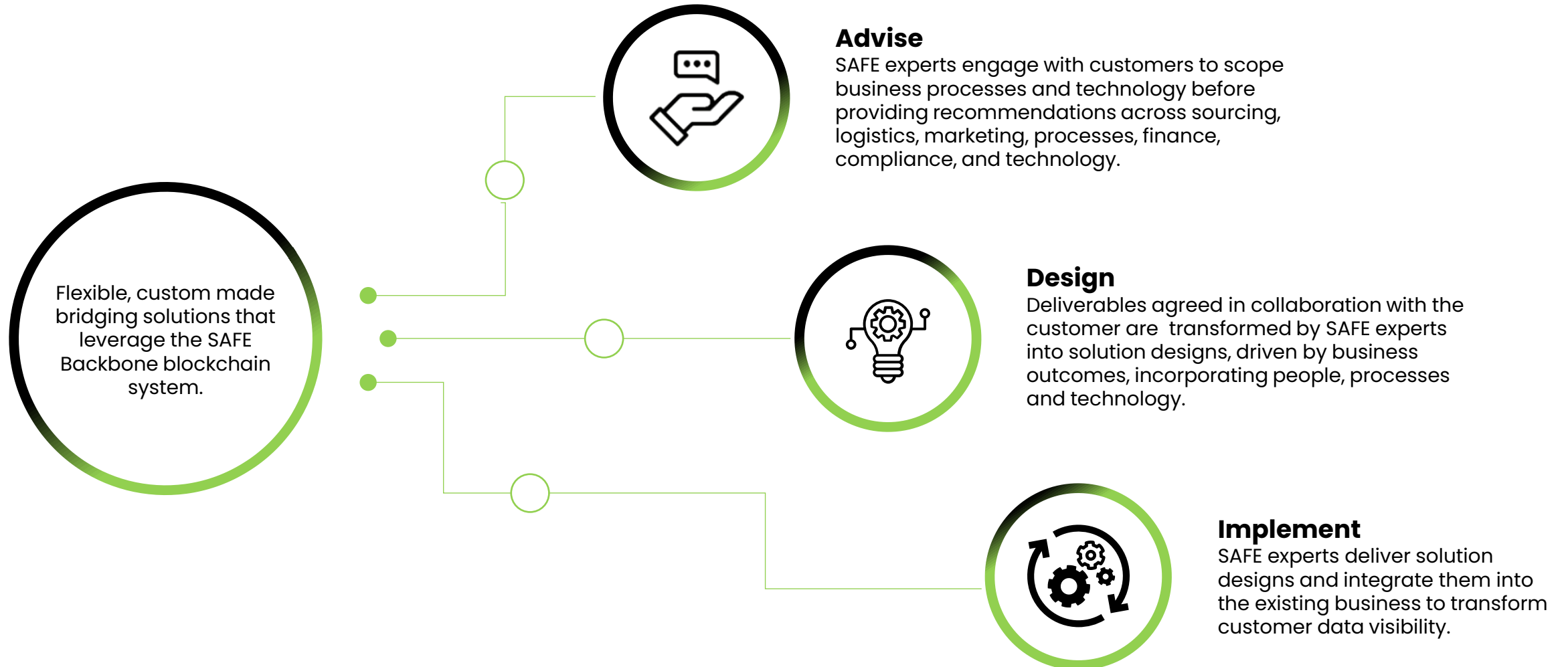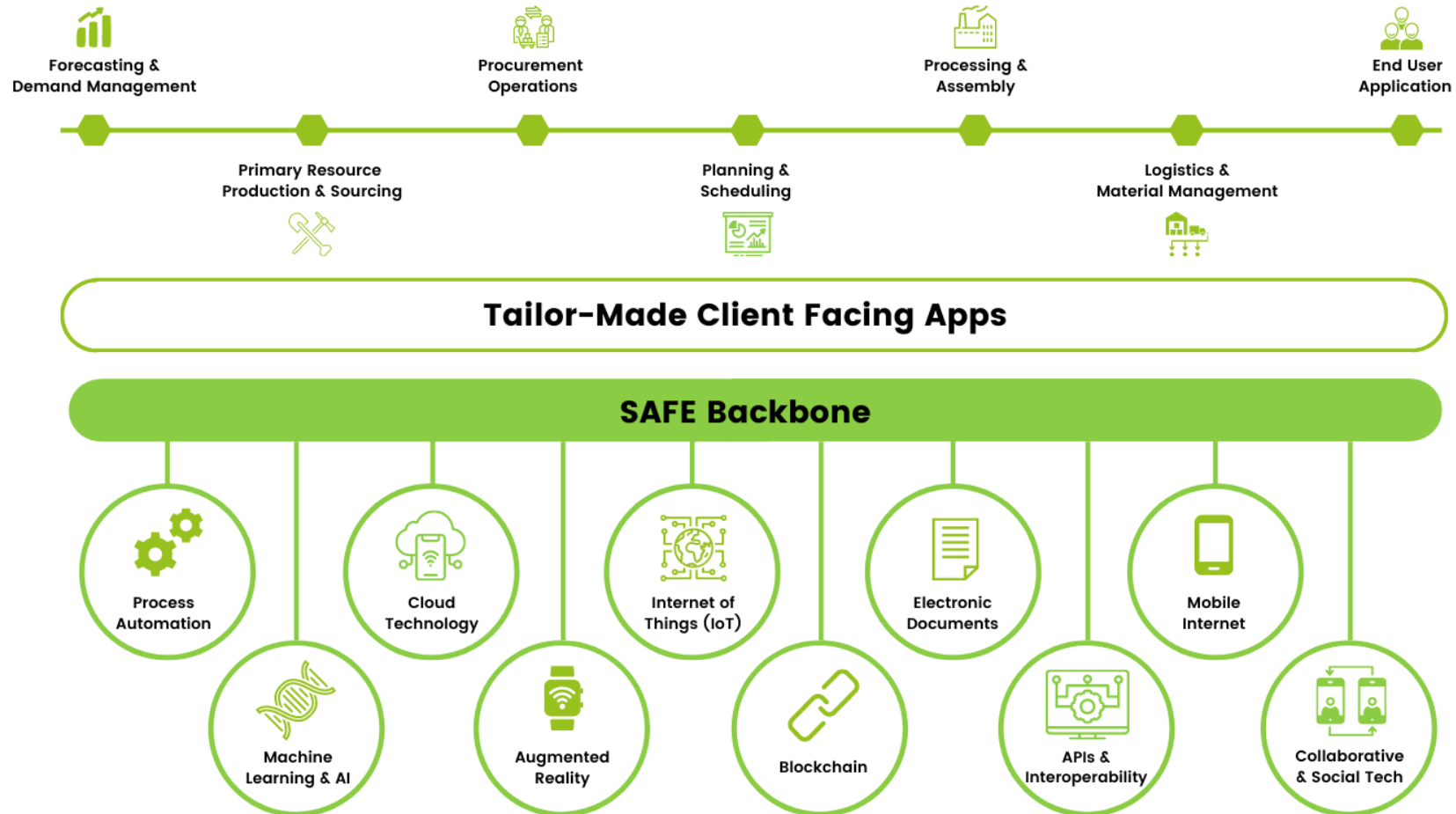SAFE creates transparency and traceabiity for the circular economy

SAFE's integrated model of flexible solution design and technology delivery makes supply chain your competitive advantage.
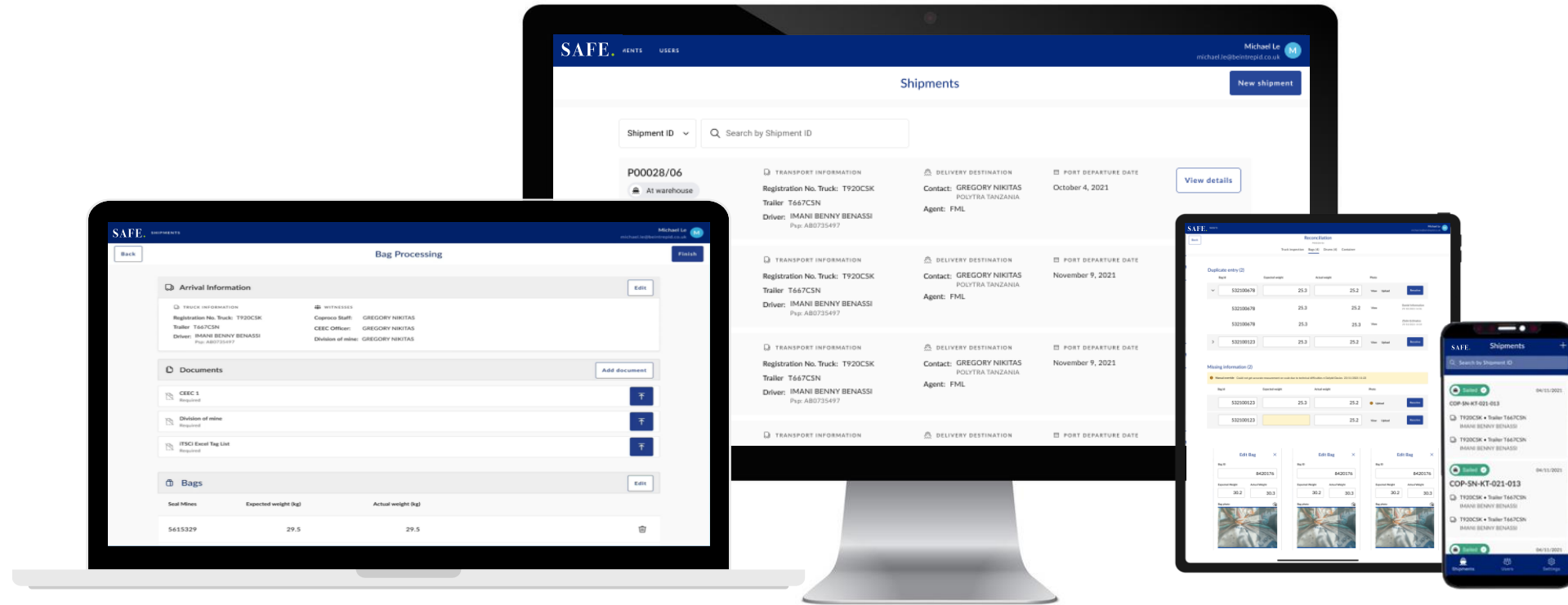
The SAFE approach delivers information awareness in your supply chain

Flexible, custom made bridging solutions that leverage the SAFE Backbone blockchain system.

Advise
SAFE experts engage with customers to scope business processes and technology before providing recommendations across sourcing, logistics, marketing, processes, finance, compliance, and technology.

Design
Deliverables agreed in collaboration with the customer are transformed by SAFE experts into solution designs, driven by business outcomes, incorporating people, processes and technology.

Implement
SAFE experts deliver solution designs and integrate them into the existing business to transform customer data visibility.

Advise on internal and external market, process and technology factors to achieve your sustainability targets.

Scoping Studies   **Audit & Compliance**   **Supply Chain Mapping**   **Marketing Strategy**   **Risk Assessments**

Design traceability technologies that provide you with a treasure trove of digital information about your **supply chain.**

Forecasting & Demand Management

Primary Resource Production & Sourcing

Procurement Operations

Planning & Scheduling

Processing & Assembly

Logistics & Material Management

End User Application

Tailor-Made Client Facing Apps

SAFE Backbone

Process Automation

Machine Learning & AI

Cloud Technology

Augmented Reality

Internet of Things (IoT)

Blockchain

Electronic Documents

APIs & Interoperability

Mobile Internet

Collaborative & Social Tech

Implement tailor-made applications that enable compliance and traceability anytime, anywhere.
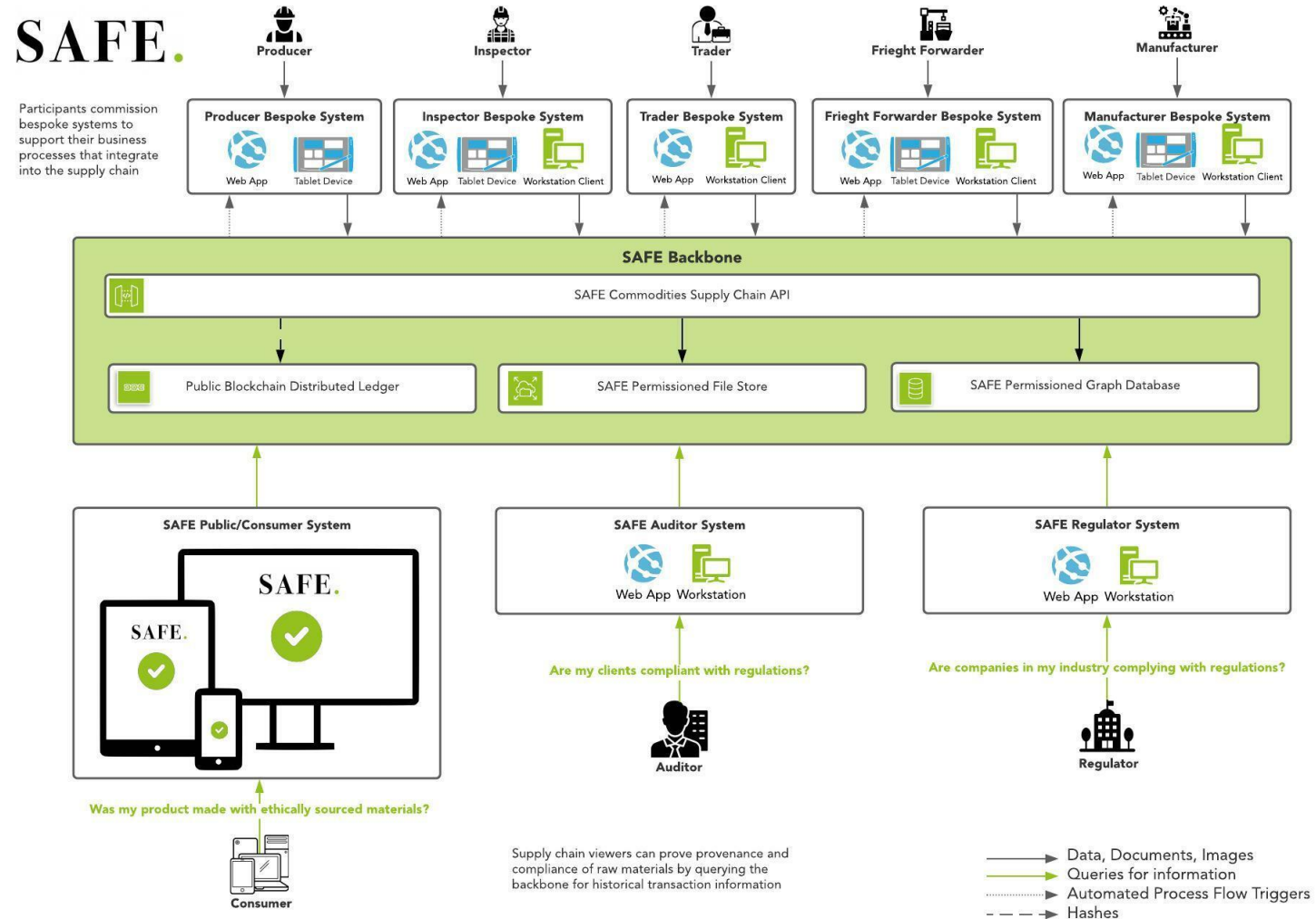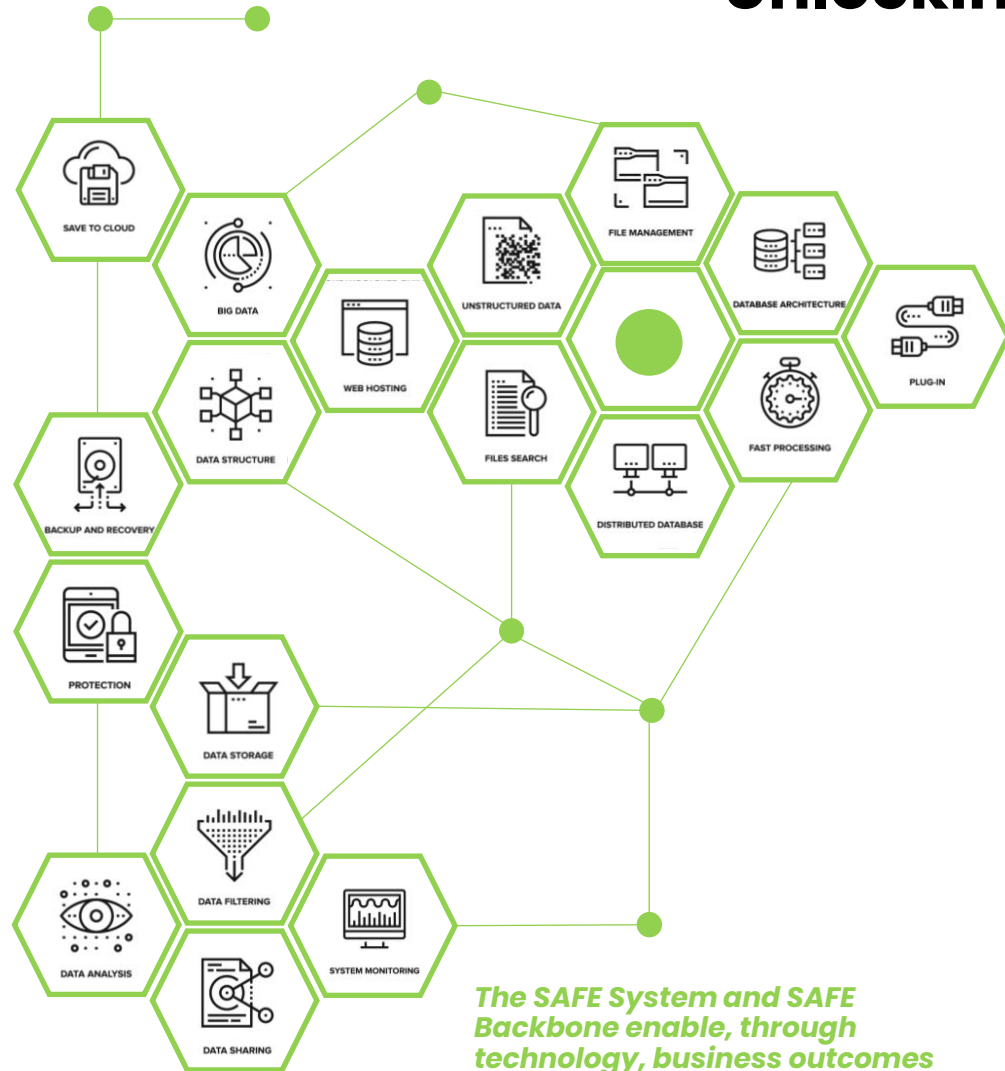

Transparency & Sustainability

Efficiency

Risk Management

Enable full stakeholder supply chain transparency over sustainability targets. **Proven.**
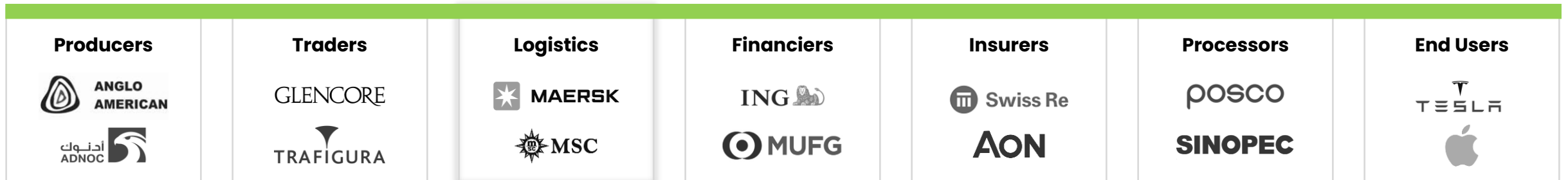
Unlocking the power of digital supply chain data

01 **Reliability**
Improve supply chain resiliency & responsiveness

02 **Efficiency**
Enable productive and profitable supply chains

03 **Sustainability**
Achieve sustainability and ESG targets

04 **Resiliency**
Deliver growth, new business, and partnerships

05 **Compliance**
Guide and meet regulatory standards

The SAFE System and SAFE Backbone enable, through technology, business outcomes previously inaccessible in physical commodity supply chains

SAVE TO CLOUD
BIG DATA
WEB HOSTING
UNSTRUCTURED DATA
FILE MANAGEMENT
DATABASE ARCHITECTURE
PLUG-IN
DATA STRUCTURE
FILES SEARCH
FAST PROCESSING
BACKUP AND RECOVERY
DISTRIBUTED DATABASE
PROTECTION
DATA STORAGE
DATA FILTERING
DATA ANALYSIS
DATA SHARING
SYSTEM MONITORING

Engaging partners in the value chain to help achieve broader sustainability goals

The SAFE system is scalable to customers at all parts of the supply chain.

Producers	Traders	Logistics	Financiers	Insurers	Processors	End Users
ANGLO AMERICAN / ADNOC	GLENCORE / TRAFIGURA	MAERSK / MSC	ING / MUFG	Swiss Re / AON	POSCO / SINOPEC	TESLA / Apple

Examples of actors in the supply chain and their roles. Not all companies are SAFE customers at the time of writing.

SAFE is trusted by world class companies to deliver bridging solutions that are fit for purpose.

Flexible, tailor-made solutions leveraging the SAFE Backbone blockchain solution.
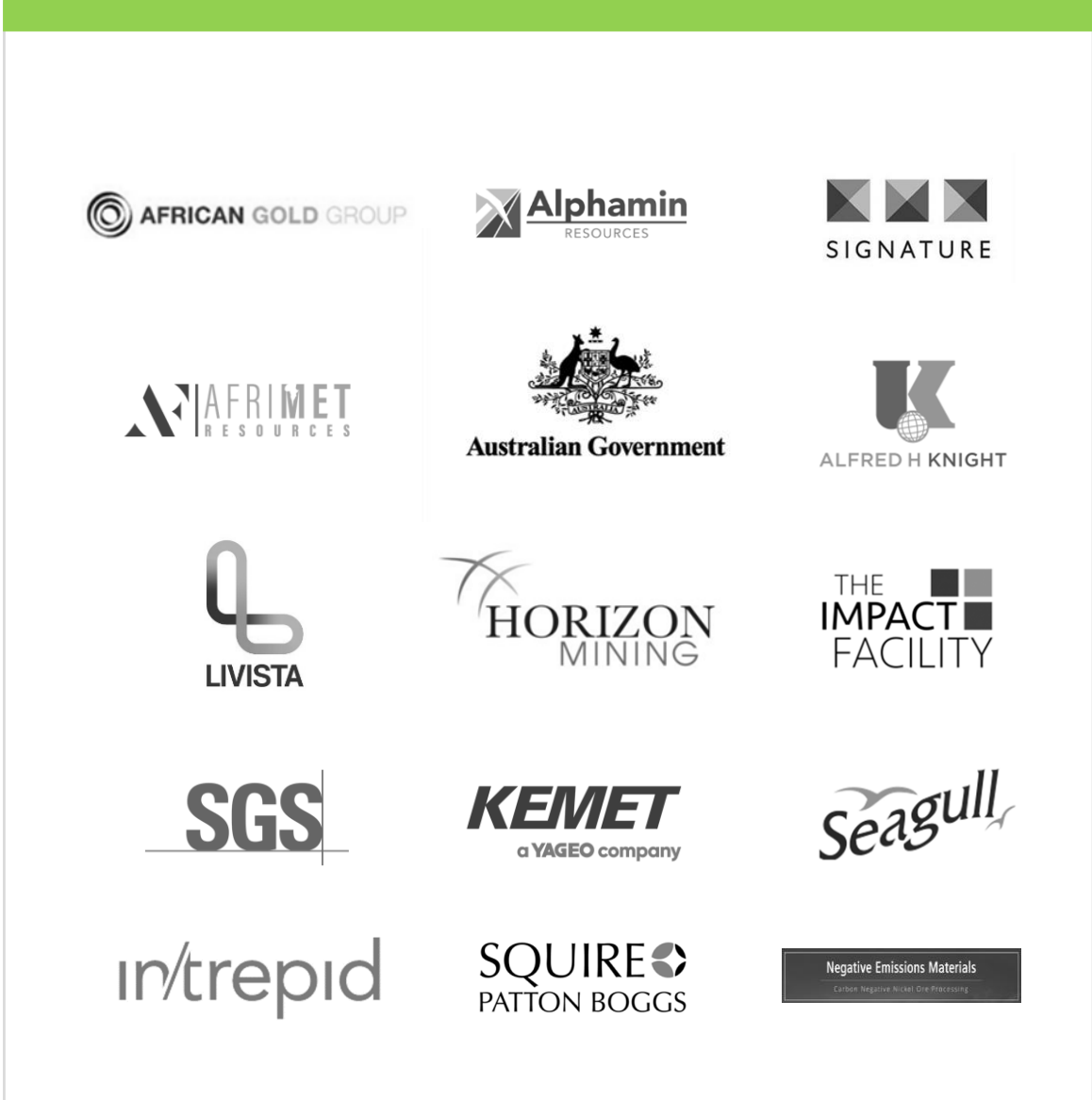
SAFE locations & activities

About SAFE

SAFE was founded in 2019 and is now present in Switzerland, UK, Australia, South Africa and USA.

SAFE's experienced commodity professionals combined deep experience in commodity supply chains with technology expertise to create information awareness in supply chains.

The SAFE system is being rolled out and enhanced across commodity markets.

SAFE Activities

SAFE projects span the globe and industries.

Raw materials are increasingly sourced from difficult jurisdictions. Local presence and years of on-the-ground experience in these regions allows SAFE to operate effectively on behalf of its customers.

Industries include metals, oil & energy, electronic consumer goods, electric batteries & automotive.
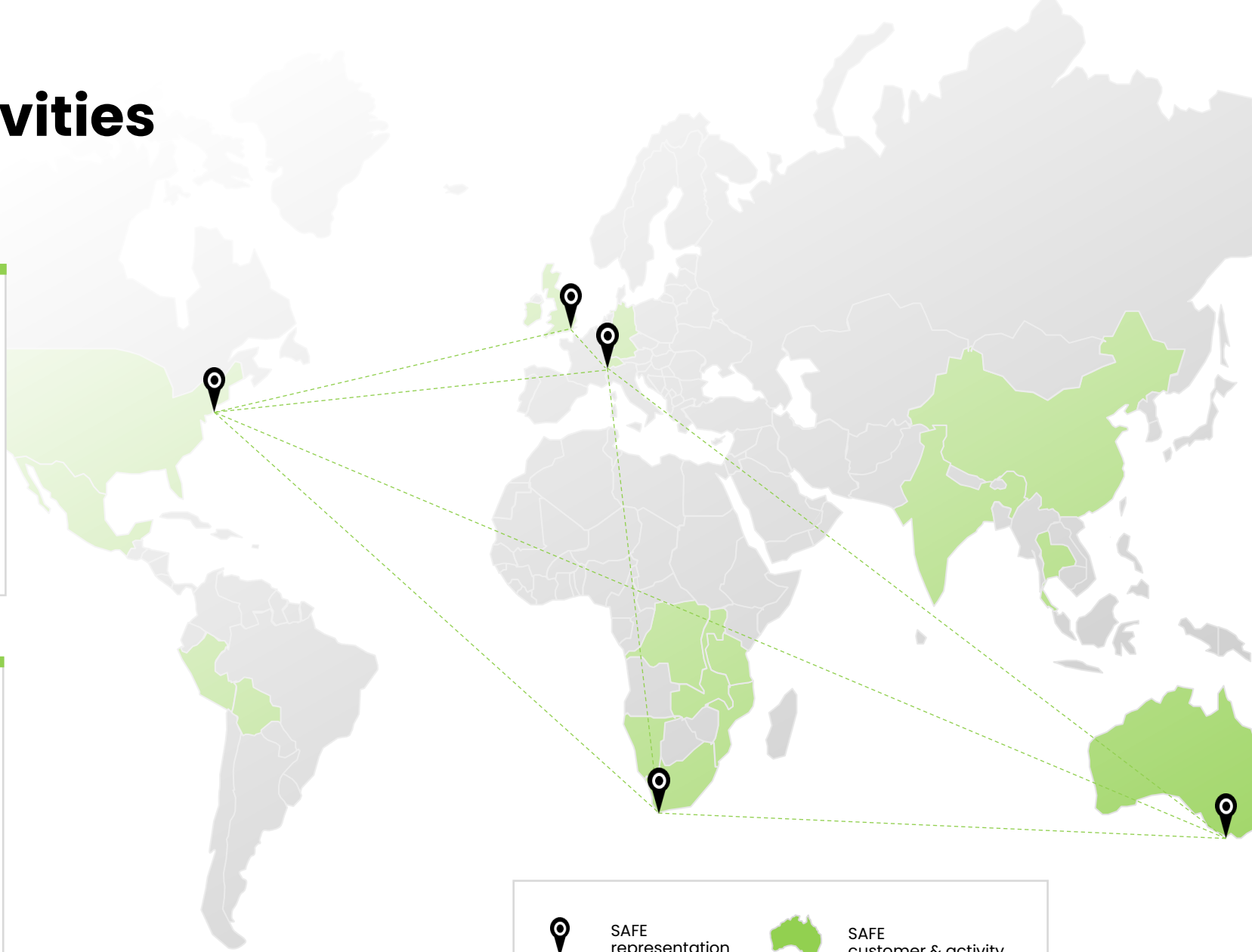
SAFE representation

SAFE customer & activity

Why SAFE

01 **Expert Knowledge**
Deep hands-on experience in your field

02 **Flexible Technology**
Flexible, tailor-made solutions for complex businesses

03 **Delivery Track Record**
Deep portfolio of successful digital change programs

04 **Innovation Focus**
We build for your future

05 **Your Sustainability Partner**
Creating long term, collaborative partnerships

Companies with traceable value chains will outperform those without them.

SAFE.

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