

## ***Blockchain Assurance***

Providing real-time, transaction level assurance to Blockchain technology





## What is Blockchain?

The use of advanced **cryptographic techniques** to implement a **distributed system**, that allows for rapid processing of transactions in a potentially trustless environment.

## Why the Interest?

After 30+ years of software investments, and reorganizations; **business processes**, inside your own four-walls, **are quite efficient**, which creates challenges in developing and executing high ROI business cases. Blockchain offers the possibility of **significant process optimization** with much higher return characteristics.

## Characteristics of Blockchain



A **Distributed Ledger** that creates a single shared view of transactions



**Cryptographically** secured functions



**Trusted** - By use of consensus, verification is achieved by participants in real-time



**Smart Contracts** that run complex business logic to drive shared agreements

## Benefits and Unknowns

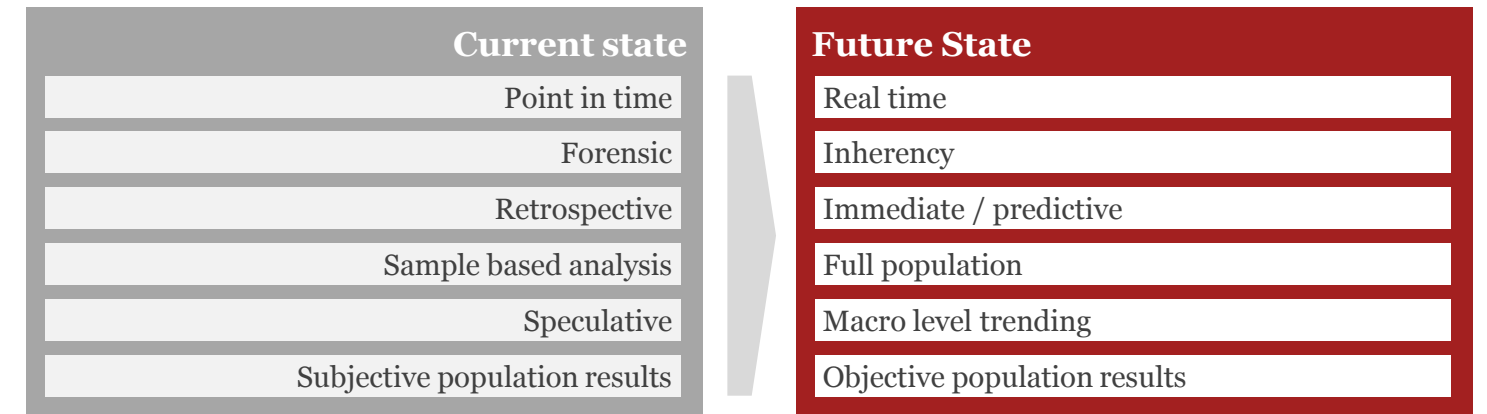
### Benefits

- Increased transparency
- Accurate tracking
- Permanent ledger
- Reduced costs
- Build Trust

### Unknowns

- Complex technology
- Regulatory implications
- Implementation challenges
- Emerging standards
- Sharing Trust & Assurance
- Resilience

## A Fundamental Shift in Philosophy



## The Audit Challenge

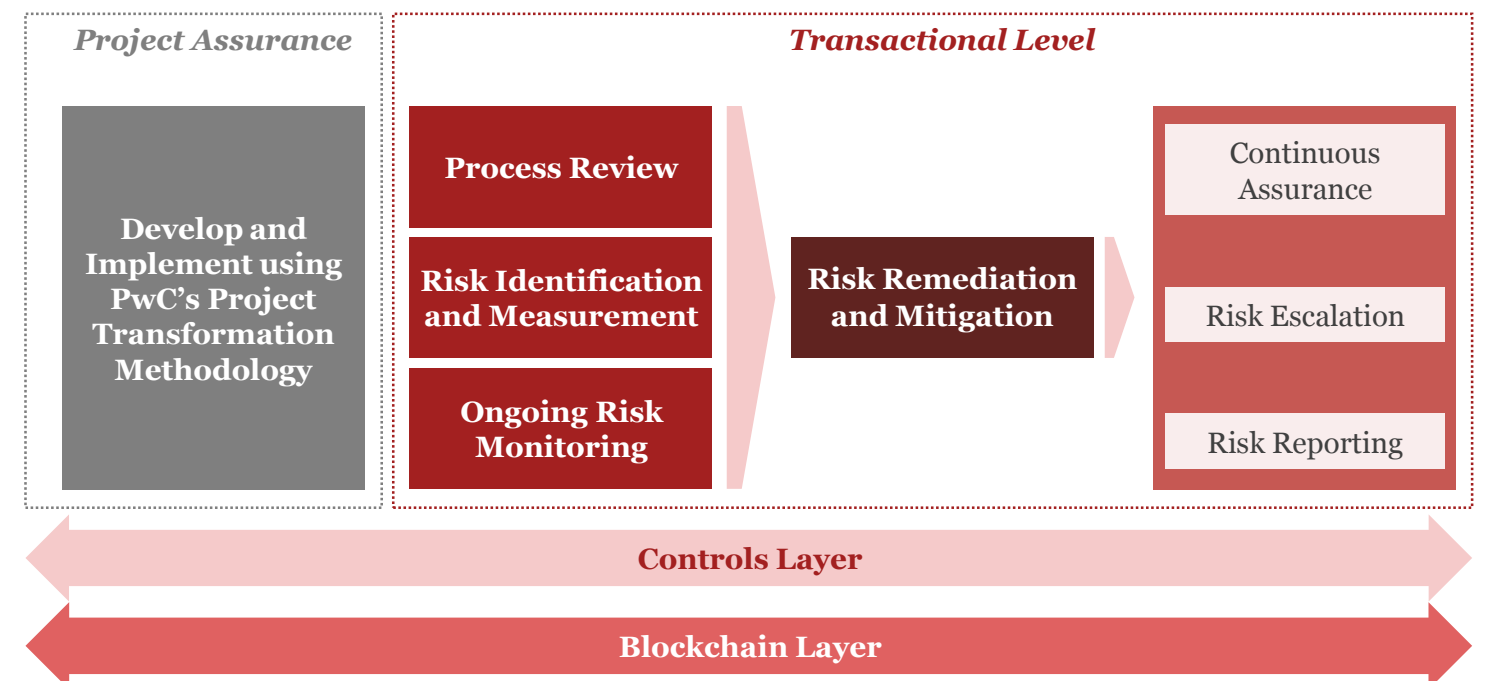
### Current Limitation

Traditional audit approaches typically do not work with Blockchain but **assurance** is still a **necessary component** of any use case.

### Market Need

Meeting assurance requirements requires the **necessary transparency and optics** to generate confidence and thereby **increase acceptance and economic viability** of any use case.

## PwC's Blockchain Assurance Methodology



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