BLOCKCHAIN
TRAINING ALLIANCE

BLOCKCHAIN
Implementation
www.blockchaintrainingalliance.com

- Database?
  - Centralized
  - Decentralized

- Secure network transfer?
  - # parties, frequency
  - Information
  - Money (value)

- Business process automation?
  - QA/Compliance/Audit
  - Always-available information
  - Data sovereignty

Use Case Example:
Factom: Health insurance claims billing

- Automated claims billing, validation, payment, and settlement

- Multi-party value chain: patient, service provider, billing agent, insurance company, payor, government, collections

When to use Blockchain

- **Key question: Why is using a blockchain better than a central database?**

  - Still need to secure the endpoints (use cases break down)

- **Next-gen EDI/VPM in multi-party business networks**

  - Many network points of information and money exchange

  - Information Where would having a single shared set of trusted information help in value chain ecosystem?

- **Trade-offs and hybrid networks**

  - Centralized systems: fast, scalable, adaptable, manage

How Do I Get Started

- ◎ **Requirements Definition**
- ◎ **Proof of Concept Development**
- ◎ **Tools & Technology Infrastructure**
- ◎ **Pilot Project**
- ◎ **Deployment Strategy**
- ◎ **Production**

Requirements Definition

- Where would having a single shared set of trusted information help in value chain ecosystem?

  - Blockchain is a single shared database of information and transactions between parties in a value chain

- What are obvious ways to deliver customer value?

  - Financial: What is the cost of transactions/information transfer now? What is the business case for moving to a blockchain solution?

  - QA Regulation/Compliance: audit-log demonstrates compliance; assures chain of custody

Proof of Concept Definition

- Business process re-engineering 2.0

- Map ecosystem interactions and identify choke points, friction, mission-critical interchange

    - Identify crucial points of secure information exchange and value exchange in the value chain

- What are the obvious (low hanging fruit) problem and how can a blockchain improve this?

    - Instantaneous transfer, pre-validated transactions

    - Audit trail accessible 24/7 by all parties

Next Steps

- Identify 2-3 use cases for Blockchain

- Design and Implement Pilot Project

- Deployment Strategy

- Competitive Edge: lead blockchain single shared database and processes in your industry ecosystem

- Resources

  - Blockchain consultants, system integrators/vendors

Practicality: How to Get Started?

- Bitcoin Wallets

    - Software wallet: Coinbase, Mycelium, Bread

    - Hardware wallet: Trezor, Ledger

    - Linked VISA debit cards: Shift, TenX

- Ethereum Smart Contract Wallets

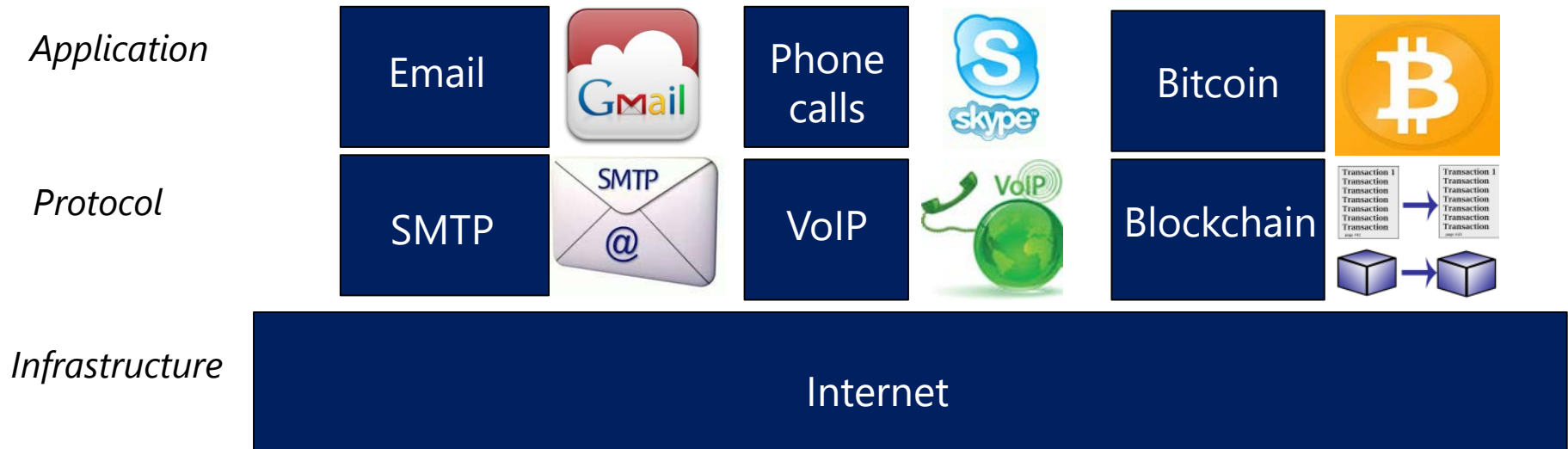   - Store and trade Ether and access, use, write, deploy, and maintain smart contracts

    - MyEtherWallet

    - Jaxx

What is Blockchain?

- **Blockchain technology is a software protocol for the secure transfer of unique instances of value (e.g. money, property, contracts, and identity credentials) via the internet without requiring a third-party intermediary such as a bank or government**

Application	Email	Phone calls	Bitcoin
Protocol	SMTP	VoIP	Blockchain
Infrastructure	Internet		

BUSNESS USE CASES

- Background checks: education credentials, criminal records
- Secure document storage: home deed, auto title
- Birth registries
- Land registries
- Financial services: securities clearing, syndicated loans
- Global supply chain: automotive recalls and counterfeit airbags
- Healthcare: EMRs, insurance claims, genome research
- Airlines: registration, re-booking, vouchers, loyalty
- Tokenized economy: Tech Coworking space 1 token = 1 seat
- Payment channels: Starbucks or for bandwidth consumption

Blockchain Training: An Overview for Business Professionals

$399.00 USD

VIEW COURSE   REQUEST A QUOTE

IoT and Blockchain Training

$599.00 USD

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Blockchain Architecture Training

$2,495.00 USD $1,895.00 USD

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Ethereum Training: Hands-on Ethereum Development Bootcamp

$2,495.00 USD

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Hyperledger Training: Developing on Hyperledger Fabric v1.1

$2,495.00 USD

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Corda Training: CorDapps Development

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Blockchain for Business

(Overview)

Ethereum (4 days)

Ethereum Development Bootcamp (2)

Build DApps with Solidity (2)

Hyperledger (4 days)

Hyperledger Fabric Bootcamp (2)

Programming in Chaincode (2)

Certification: June 2018 Delivery

⦿ Blockchain Certified Professional

The following careers would benefit from certification:
- Consultants
- Programmers & Developers
- University Professors
- Software Engineers
- CEO/CTO/CIO

⦿ Ethereum Certified Professional

The following careers would benefit from certification:
- Software Engineers
- Application Architects
- Programmers & Developers

⦿ Hyperledger Certified Professional

The following careers would benefit from certification:
- Enterprise Software Engineers
- Enterprise Application Architects
- Enterprise Programmers & Developers

What is included in each delivery ?

- Book
  - For each session, books will be mailed out or delivered via virtual classroom

- Server nodes
  - Provided in the cloud

- Labs
  - Provided in the cloud
  - Lab files will be delivered in a ZIP file for your future student reference

TRAINING OVERVIEW

- ◉ **Objectives**
  - ◉ **What is blockchain, technical overview, business use cases**
- ◉ **6 modules (30-45 min each + Q&A + break)**
  1. **What is Blockchain**
  2. **History**
  3. **Blockchain Basics**
  4. **Blockchain Transactions**
  5. **Use Cases**
  6. **Implementation**
- ◉ **Materials, Certificate of Completion, Feedback**

Questions?

THANK YOU

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BLOCKCHAIN FINANCIAL THEORY

Blockchain Economics is fundamentally a new finance and investment model

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