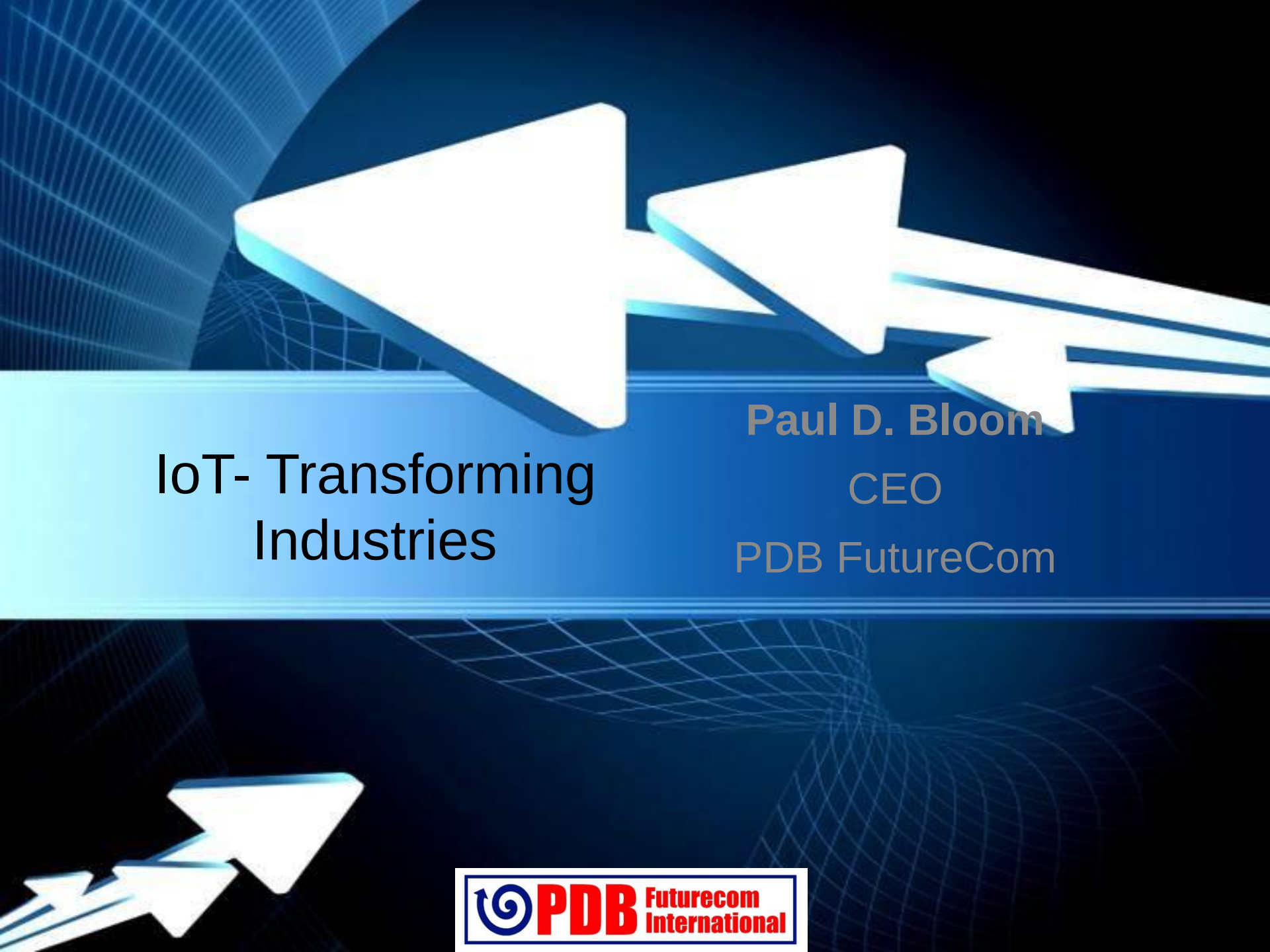




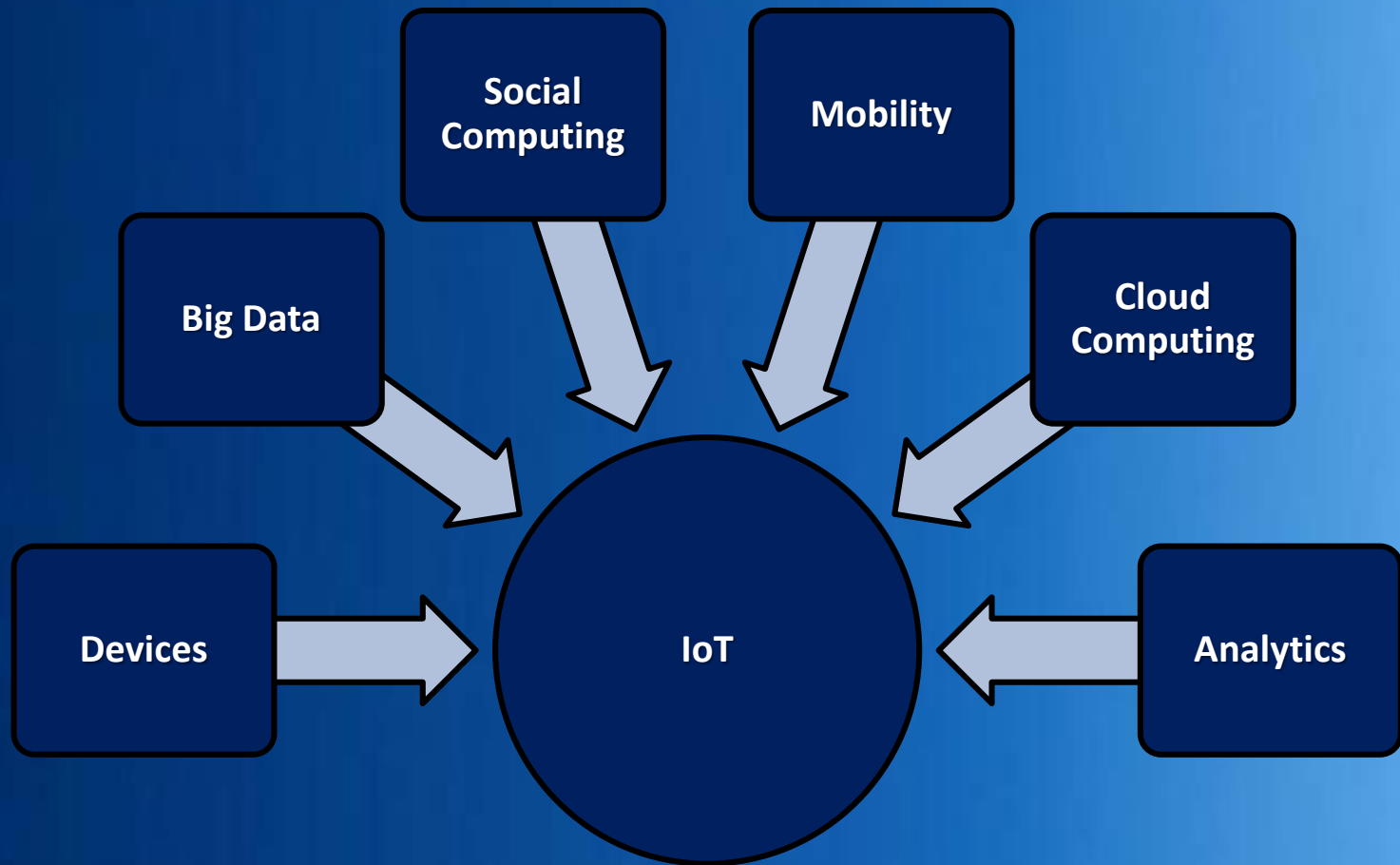
IoT- Transforming Industries

Paul D. Bloom

CEO

PDB FutureCom

Trends Impacting IoT



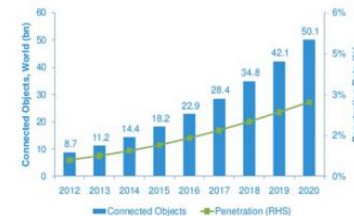
Make IoT Feasible

Cisco: "In 2020 the number of connected objects expected to reach 50bn by **2020**".



Is this Possible?

Number of Connected Objects Expected to Reach 50bn by 2020



Penetration of connected objects in total 'things' expected to reach 2.7% in 2020 from 0.6% in 2012
Source: CCS, 2013

- ✓ SIMPLE DEVELOPMENT
- ✓ FLEXIBLE CONNECTIVITY
- ✓ TIME2MARKET
- ✓ RAPID DEPLOYMENT
- ✓ STIMULATE COLLABORATION
- ✓ SOCIAL APP MARKET

What will make IoT Successful

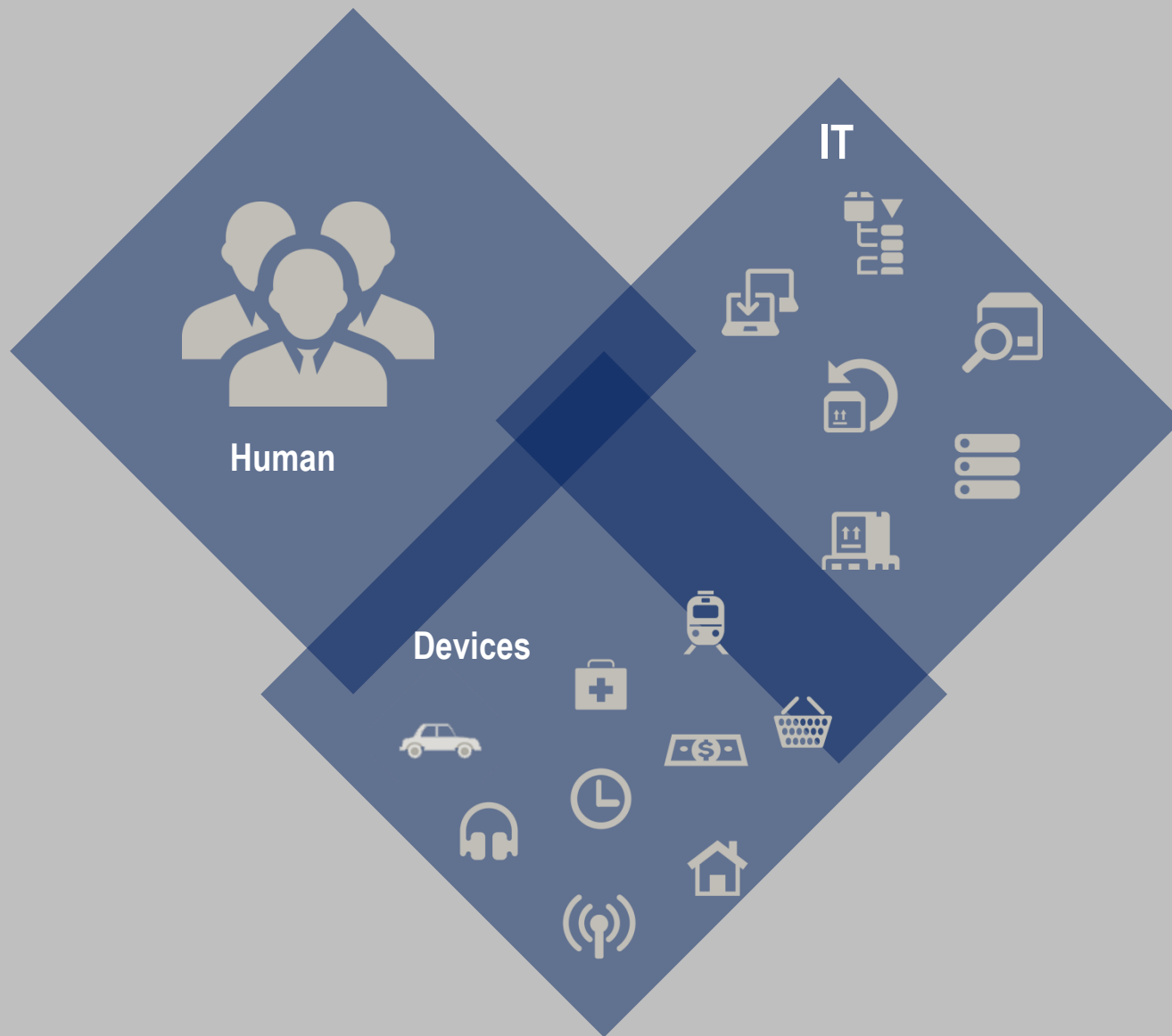
- Clear ROI
- Ease of Use
- Applications
 - Ease of development
 - Time to Market



Who Develops Apps

- Enterprise
 - Line Of Business
 - IT
- Ecosystem
 - Integrators
 - Third party developers
- End user





IoT Model innovation



Control

Monitor

M2M



Human interaction

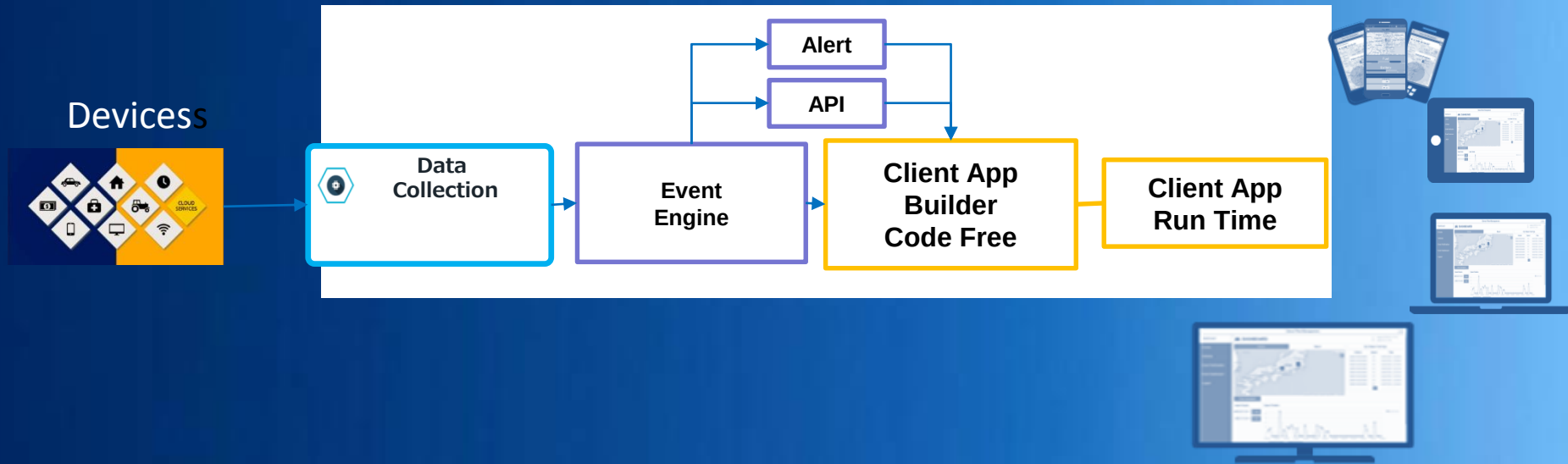
**Business
Applications**



IoT

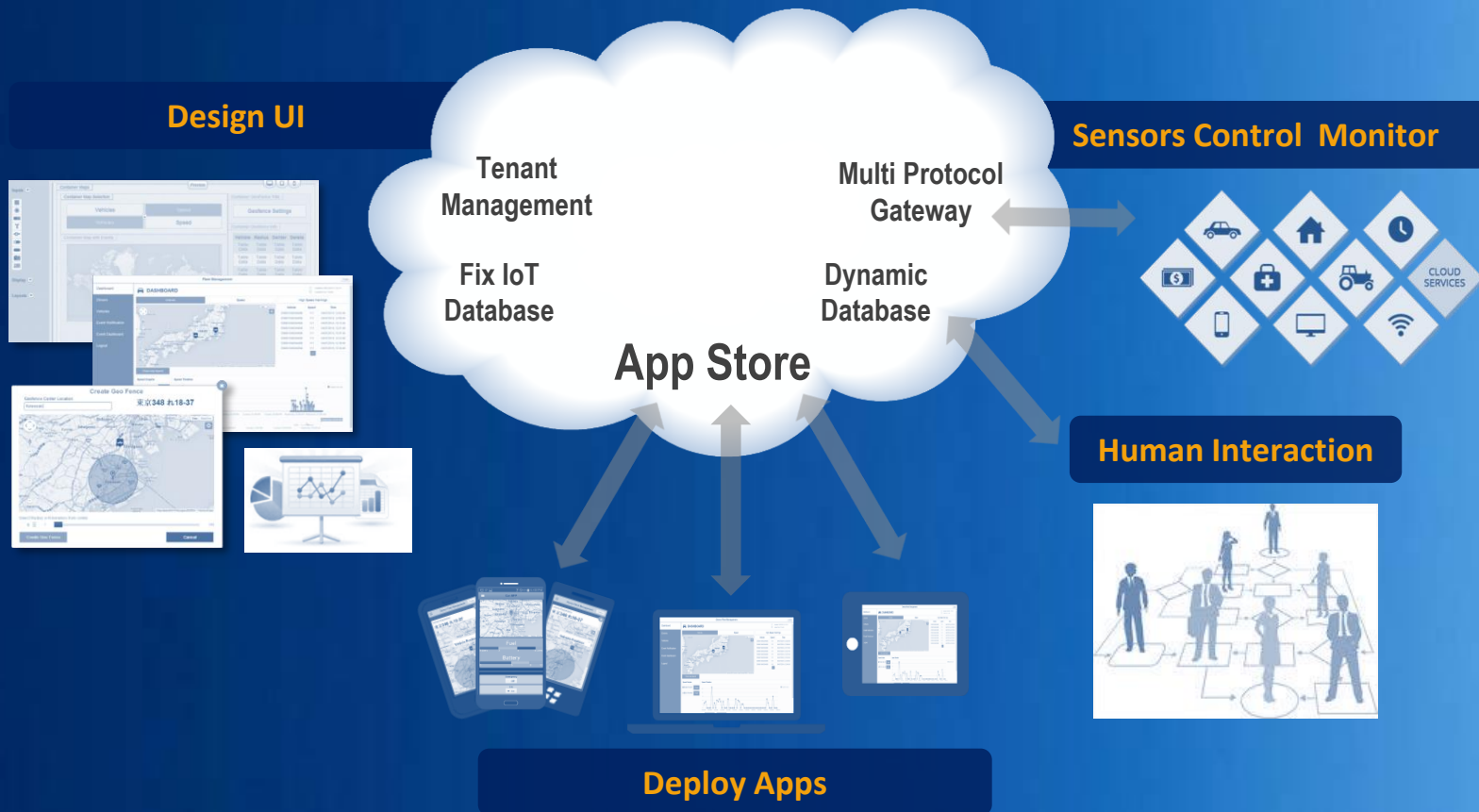
End to End Client Solution

Code Free Client App Development system



- Enterprise App & IoT App
- Event trigger by sensors & Human interaction
- Dynamic DB develop enterprise app
- Responsive UI – different view on Mobile, Tablet and PC
- Big Data client Apps limited data on Mobile and big data on PC
- Data restrictions based role & organization

Development Environment & Runtime Environment



Code Free End to End IoT Solution

M2M



Enterprise Application

Deep learning engines



functions

Control & Monitor

Live stream

Indoor Mapping

Human interaction

Target End Users

Staff

Production Control

Operational Engineers

Management

Third parties

Second layer

Runtime Application Environment

Benefits

Reduce 80% delivery time

Operational Engineers, business professional & domain experts can develop their Apps

Justify the ROI for 50% un automated process

First layer

Code Free Client App Development Environment

Analytics Module /Algorithms

Data Flows

Summary

- Business Apps/Human Interaction
- Responsive UI – Optimizes view for Mobiles, Tablets and PCs
- Sensor Trigger Events
- Human Centric Events
- Control Monitoring Apps
- Dynamic DB for enterprise Apps
- Sensors DB
- Client Apps can provide Big Data on PC and reduce data on Mobile
- Data access security based on roles & organizations
- Live Stream Video Apps
- Indoor Mapping
- Enable third party to integrate their solution





Thank you

Paul D. Bloom

CEO

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Analytics tools
by third party

Third Party
Billing i.e.
PayPal,...

Extra visualization by
third party graph
provider

Cloud

Data Collocation

Multi Protocols
cloud gateway

IQP Protocols: MQTT,
TCP, Rest., Property
protocols iDigi, Advanet,
ATrack and etc.

Device Agent
Software
(Optional)

BI Functions



Complex Event
Process CEP

Reports

Analysis Basic

Dynamic Business
Data – SQL DB

Sensors Data –
SQL or NonSQL

Core Components

Formula
Calculation

APP Builder

Aggregation
Engine

Event Engine
CEP

Entity Builder –
via M2M Data
& dynamic
create tablets
for enterprise
apps

Pivot process
Engine

Import/
Export
Excel from
End App

Import
Excel to
entity

Data
restriction
base role &
organization

App Transfer
between
Tenants/Sites

Function
(coding)

Query Builder

App
Duplication

End APP User
Management

IQP HTML
Components
– Code HTML
JavaScript
CSS

Email Template

Parameter

Developer
Management

Application
Management

Tenant Mgt.

Tenants usage
limitation

Security access
setup

Protocols setup

Tenant setup

End User Mgt.

Define user
App

Define user
role

Event Engine CEP

Event Trigger - Entity

Result – send Generic command

Event Trigger - Things

Result – send custom command

Event Trigger - Device

Result - run
Query

Result -
send email

Device Visualization HTML5

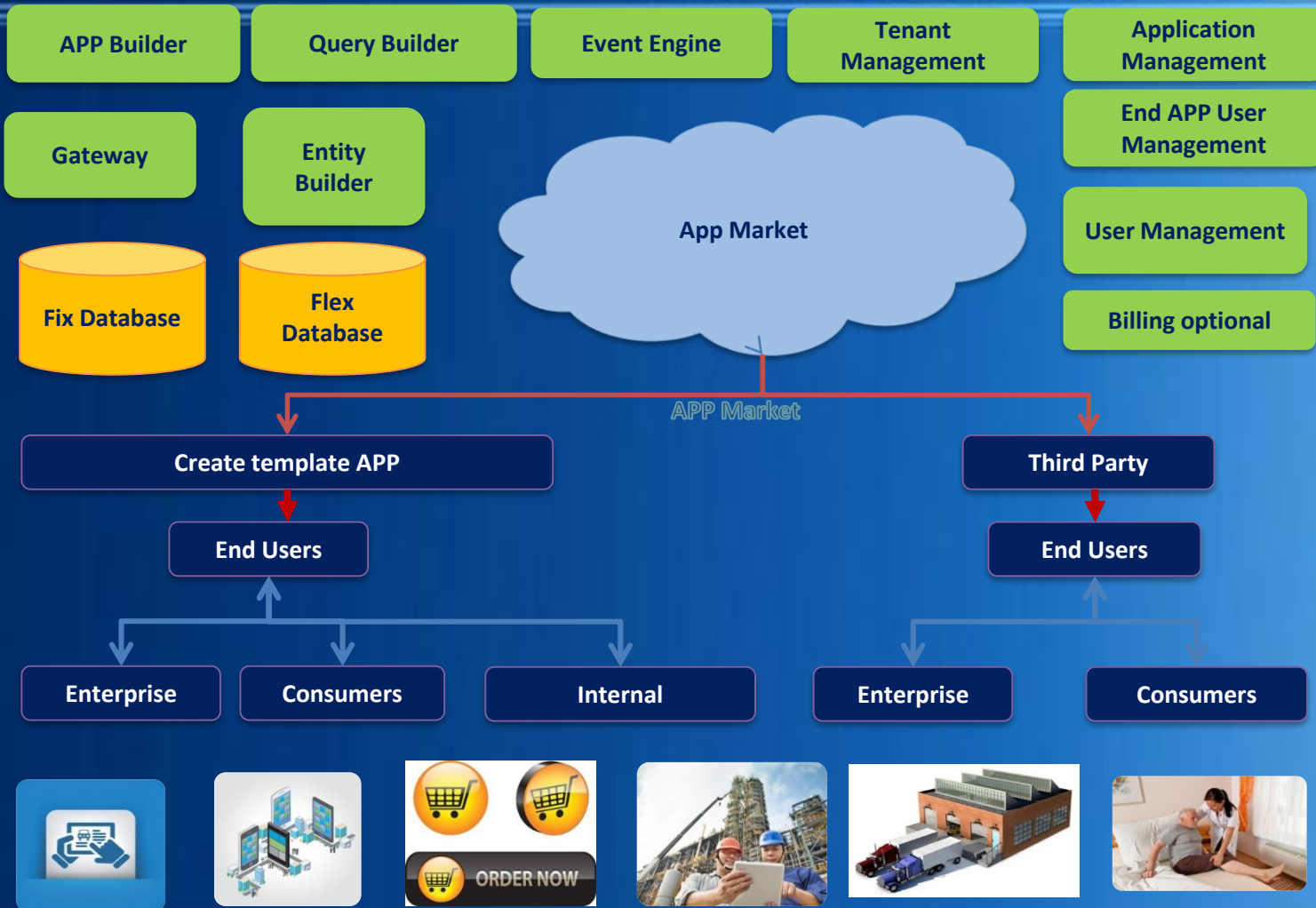
Responsive
UI- Design 1
App with
different view
for Mobile,
Tablet and PC

Global – limit
no. Query to DB

Lazy
Loading

Thema

Design Big Data
APP – light APP
for Mob and Heavy
APP for PC



Gateway

