

# O PRESENTATION: The road to modernization: how insurance core technology is changing

Dan Woods, ceo, Socotra

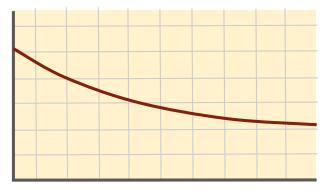
### **The Road to Modernization** How Insurance Core Technology is Changing

#### Dan Woods CEO, Socotra

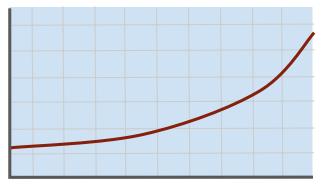


#### What Everyone Knows: Change is Accelerating

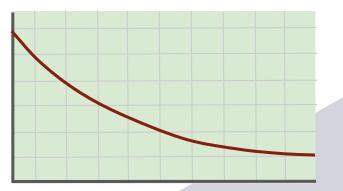
A wave of changes in the next decade will create new winners and losers



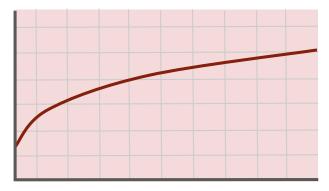
**Expense Ratio** 



Number of Products



Product Time to Market



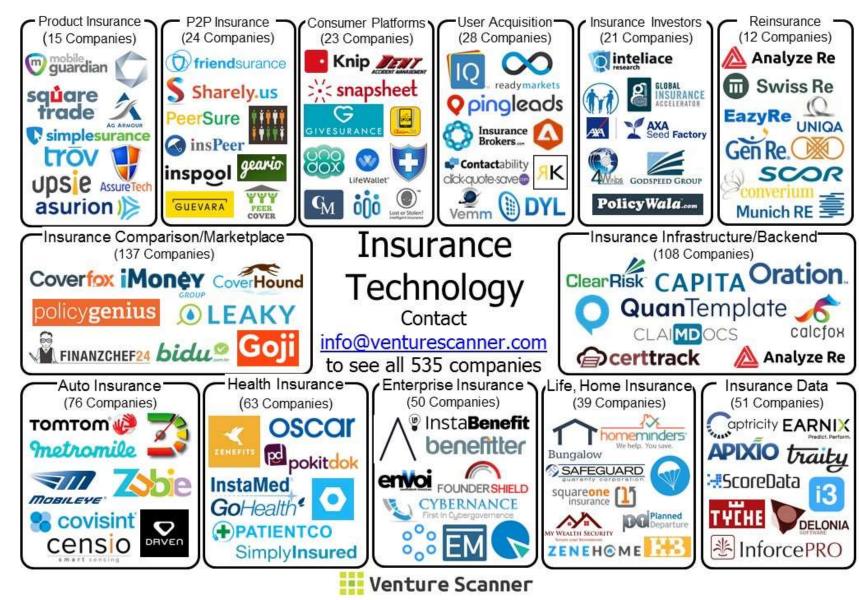
Number of Distribution Channels



New Technologies to Evaluate



#### There is a Fast-Changing InsurTech Reality.



Source: https://venturescannerinsights.wordpress.com/tag/insurtech-startups/

#### New Technologies

- Vehicle Telemetry
- Internet of Things
- Episodic Insurance
- Blockchain
- New Data Sources
- Social Media
- Mobile Claims Apps
- New Agent Networks
- Artificial Intelligence
- Comparison Websites
- New Health Data
- Satellite Imagery
- Lending Economy ...and on...and on.

## **Problem:**

Existing Core Technology is Not Ready



### **IT Maturation Journey**



#### 2 Configuring

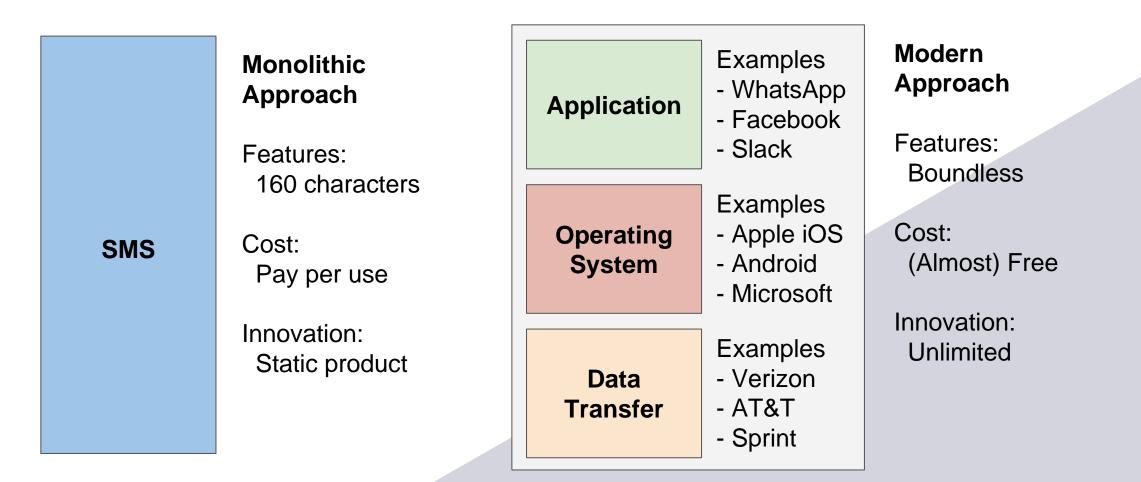


#### **3** Connecting



#### progress

### **Case Study: Mobile Messaging**



### **Typical Current Carrier Architecture**

	Abstraction Layer		Components					
	Innovation Layer	Inf	Inflexible Innovations and Integrations with External Technologies					
	"Core" Layer	L	Inderwriting System	Policy Administration	Claim	ns System		
		-		System				
		<b>}</b>						
					I			

#### **Example Core Design Principle #1**

**Data-Model Centric Design** 

A new generation of technology platforms now prove data-model-centric design outperforms featurecentric design.

- Define the data model in one place.
- Store in one place.
- Access and integrate everywhere.

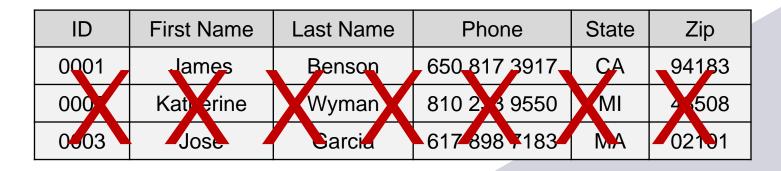


#### **Example Core Design Principle #2**

#### **Dynamic Object Model**

Singular core data store table with versioned, dynamic fields.

Searches occur via external indexing, *not* hard coded database lookups.



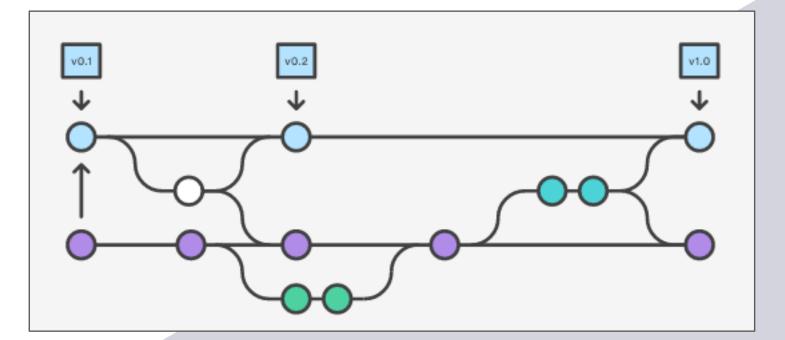
ID	Version	Dynamic Data Record
0001	00001	First Name = James, Last Name = Benson, …
0002	00001	First Name = Katherine, Last Name = Lee,
0002	00002	First Name = Katherine, Last Name = Benson,

#### **Example Core Design Principle #3**

Manage Configuration as Code

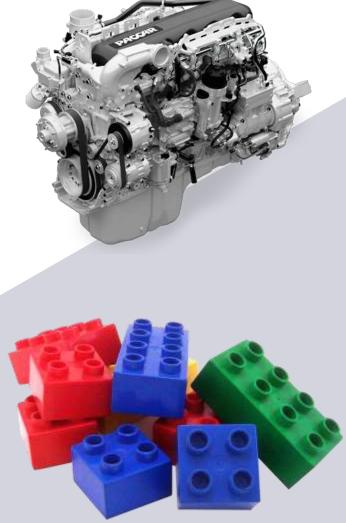
A new generation of tools enables rapid, safe, collaborative software development.

Manage insurance product like an software product, and leverage decades of best practices.



#### **Possible Next-Generation Carrier Architecture**

Abstraction Layer	Components	
Innovation Layer	Mobile Apps, BPM, AI, IOT, Blockchain, etc	
Business Layer	Product Definitions, Reports, Document Generation, Forms, Ratings	
Data Layer	Object Model, Auditability, Import/Export	
Cloud Layer	Storage, Backups, Redundancy, Scaling, OS, Upgrades, Security	



#### **Benefits of a Modernized Approach**

<u>Agility</u> - Ability to swap components in isolation allows for faster, cheaper, and more testable changes.

<u>Quality</u> - Specialized vendors can productize non-differentiating functionality, allowing for higher quality at lower prices.

<u>Efficiency</u> - Rather than spreading engineering effort all over the stack, this approach allows insurers to concentrate resources on differentiating technology that provides competitive advantage.

<u>Maintainability</u> - Product vendors automatically provide ongoing upgrades, keeping current with security vulnerabilities, regulatory changes, and newly available underlying technologies.

<u>Upgrades</u> - As vendors improve their offerings in competition with each other, their customers are the beneficiaries of perpetual new features--with no downtime.

#### Winning Carriers Will Discover and Nurture ....Not Buy or Build



## **Advice to Carriers:**

### **Concentrate on Core, not Hype.**



#### ...and relax.

...a little.

New Technologies

- Vehicle Telemetry
- Internet of Things
- Episodic Insurance

- Blockchain

- New Data Sources
- Social Media
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### Thank You!

#### **Dan Woods**

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socotra