

Powering Possibilities

BUSHEL POWERED
S

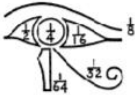








What if we could account for every bushel of grain?

(Where it came from, how it was produced, and where it's going...)

*We've been
trying to for
5,000 years*

Egyptian Hieroglyphs for Grain Measurement

Full Measure		$\frac{63^*}{64}$
Half Measure		$\frac{32}{64}$
Quarter Measure		$\frac{16}{64}$
Eighth Measure		$\frac{8}{64}$
Sixteenth Measure		$\frac{4}{64}$
Thirty-Second Measure		$\frac{2}{64}$
Sixty-Fourth Measure		$\frac{1}{64}$

*Compare Alma 11:10: "the value of them all"

Current Software in Agribusiness



AGRICULTURAL SOFTWARE / SPECIALTY CROP /
MANAGEMENT / ACCOUNTING
AGSTAR



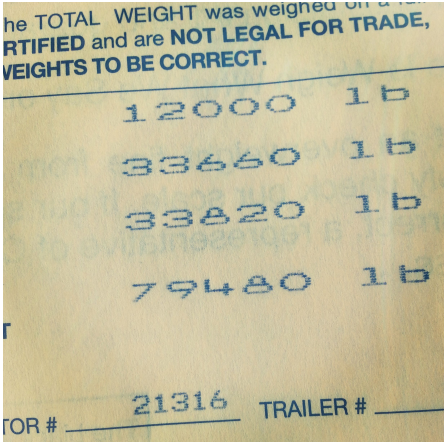
AGRICULTURAL SOFTWARE / MANAGEMENT / ANALYSIS
BINSIGHT



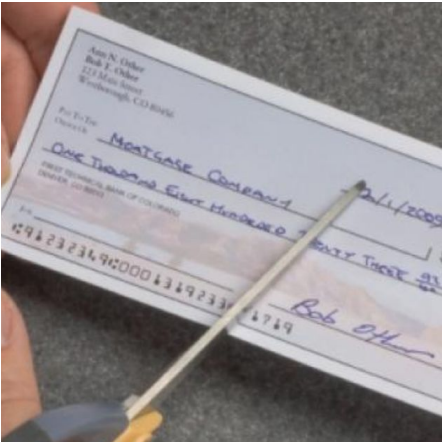
AGRICULTURAL SOFTWARE / MANAGEMENT / ACCOUNTING
IVIEW

Current Situation at Grain Companies

PAPER TICKETS



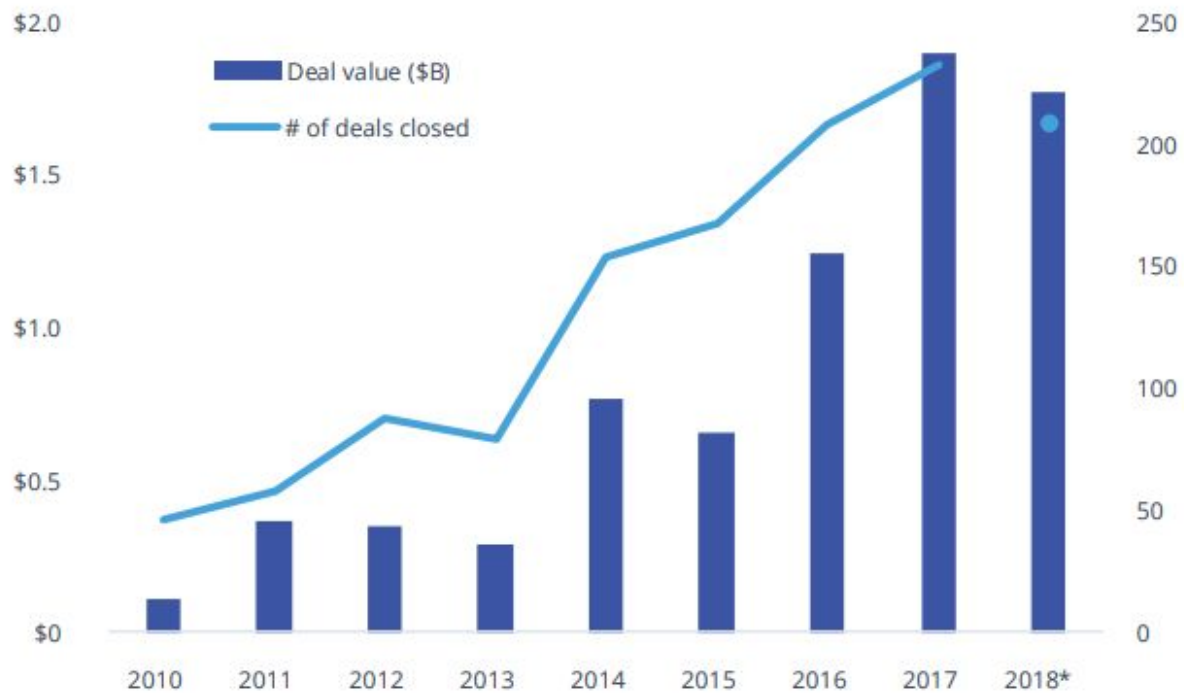
PAPER CHECKS



SNAIL MAIL



Global agtech VC deal activity



Source: PitchBook
*As of October 31, 2018

AG TECH: 80+ TECHNOLOGY COMPANIES CHANGING THE FARM

FARM MANAGEMENT SOFTWARE



PRECISION AGRICULTURE AND PREDICTIVE ANALYTICS



Supply Chain...



Infrastructure could be considered the greatest advancement in the grain industry in the last century. The robust network has allowed the rural heartland to become a major part in the world-wide exporting system.

Digital infrastructure, on the other hand is the wild west: archaic, non-standard, individualistic, and protectionist. Elevators aren't connected to their growers, one another, or processing centers.



"Quality Seed Doesn't Cost, It Pays"

Ag is the least digitized major industry*. Perceived technophobia has left the grain industry largely behind in software.

*According to the McKinsey Global Institute's Digitization Index

Who's building supply chain tech?

ESTABLISHED CO'S

- ADM
- Bunge
- Cargill
- Land O' Lakes
- General Mills
- Scoular

NEW PLAYERS

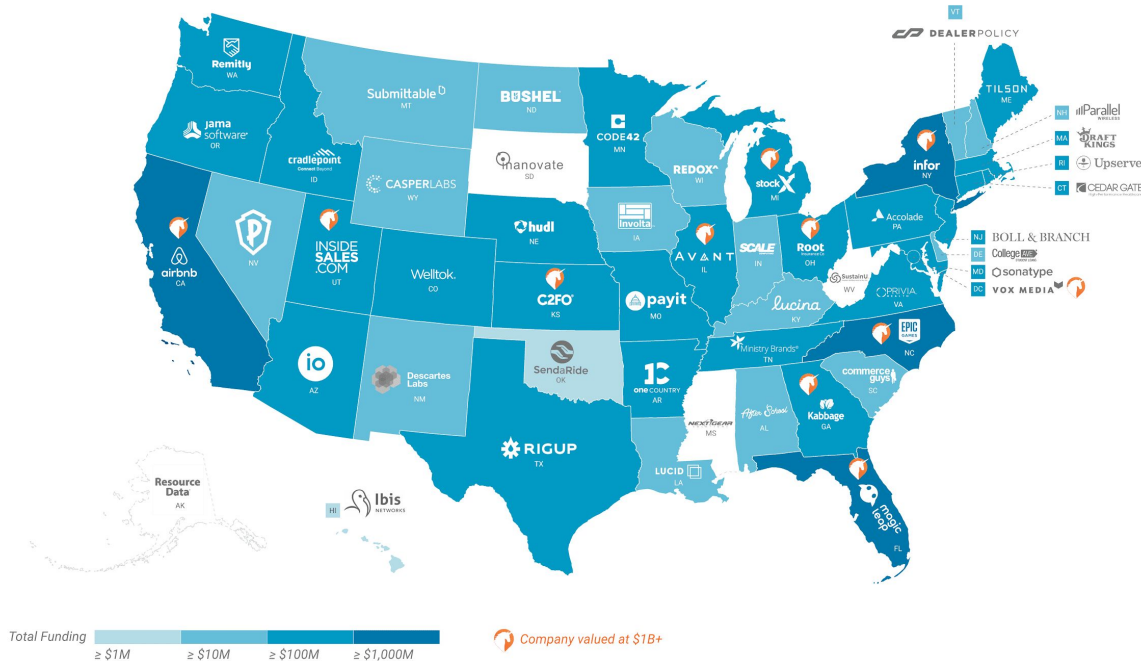


"Quality Seed Doesn't Cost, It Pays"

Rather than collaborating,
new players are pushing to
disrupt the market.

THE UNITED STATES OF TECH STARTUPS

The most well-funded VC-backed tech startup in every US state.

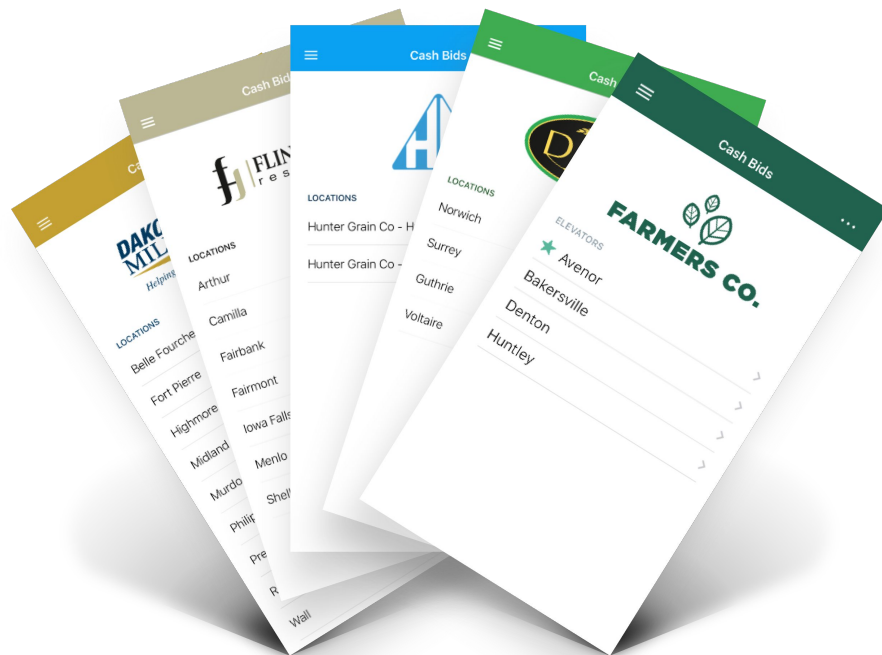


Companies must have raised a minimum of \$1M and raised any amount of equity funding since January 2014 to be considered. Excludes debt and lines of credit. Alaska and Mississippi had no companies meeting our full criteria. Data is as of 10/17/2019.

CBINSIGHTS

WHITE LABELED: *elevator's brand*

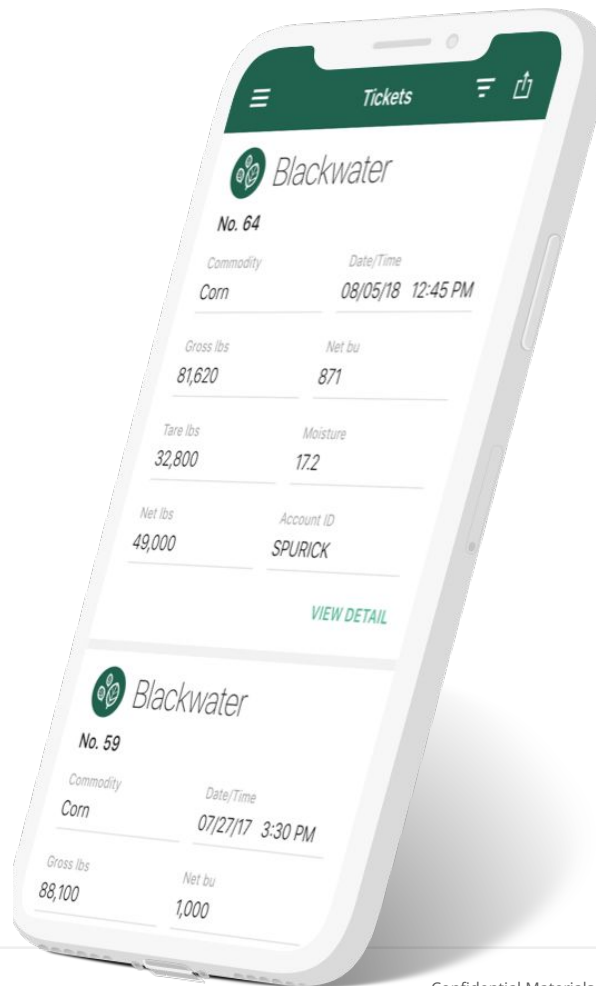
It's your brand seen throughout the app.
Your elevator is recognized as a market leader, giving growers even more reason to do business with you.



scale tickets

Your growers have **access to tickets** near real-time.* Tickets are easy to understand and track.

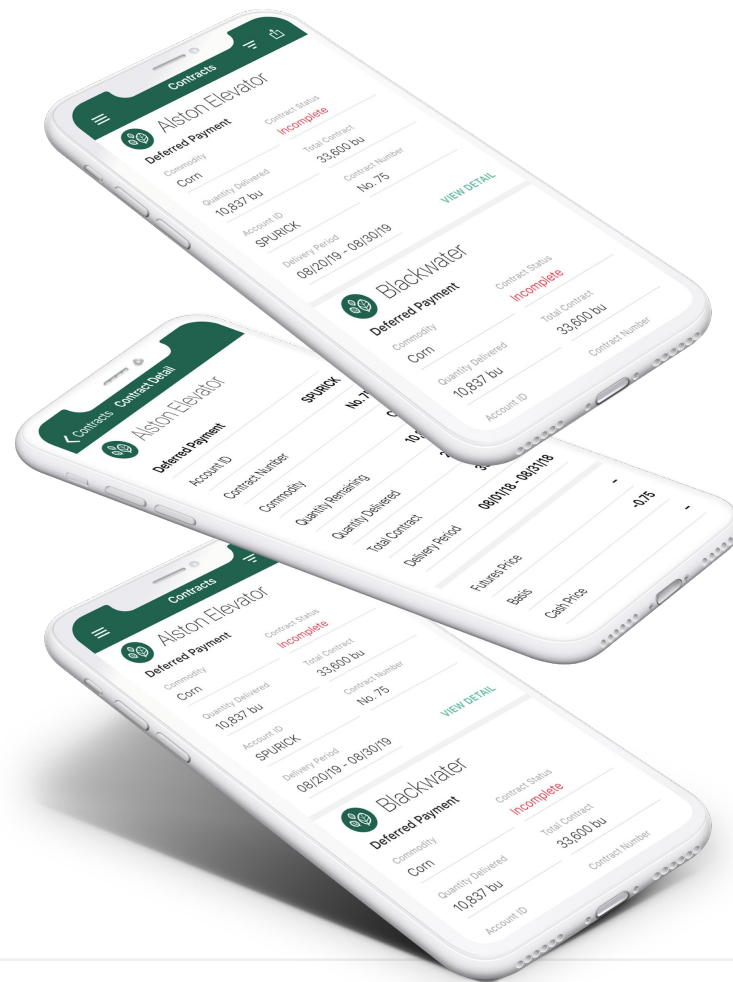
*Based on configuration. Otherwise it could be a half hour delay. Which is still better than never. And paper.



contracts

Your growers know how much they **have delivered** and how much they **need to deliver**.

Your growers know what contracts have locked in the basis and futures price.



commodity balances

Real-time inventory for your growers provides
balances of commodities across locations.

The image shows two smartphones displaying the 'Commodity Balances' app. The left phone shows a summary of Corn balances for SPURICK across three locations. The right phone shows a detailed view of the Alston Elevator location, including Open Storage, Deferred Payment, and Price Later balances.

Commodity Balances	
Updated 4/30 7:05 PM	
Corn	
SPURICK	
Alston Elevator	143,731.58
Blackwater	17,121.90
Central Chippewa	126,609.68
Total	287,463.16
VIEW DETAIL	

Corn	
SPURICK	
Alston Elevator	143,731.58
Blackwater	17,121.90
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Total	287,463.16
VIEW DETAIL	

Corn	
SPURICK	
Alston Elevator	143,731.58
Blackwater	17,121.90

Corn	
Account ID	
Updated 4/30 7:05 PM	
Open Storage	120,806.74
Deferred Payment	75,532.18
Price Later	23,000.24
Total	287,463.16
VIEW DETAIL	

Alston Elevator	
Open Storage	73,201.00
Deferred Payment	70,530.58
Total	143,731.58

Blackwater	
Open Storage	2,100.30
Deferred Payment	5,001.60
Price Later	10,020.00
Total	17,121.90

Central Chippewa	
Open Storage	45,505.44

eSign

Increase contract accuracy and transparency while saving on mailing costs.

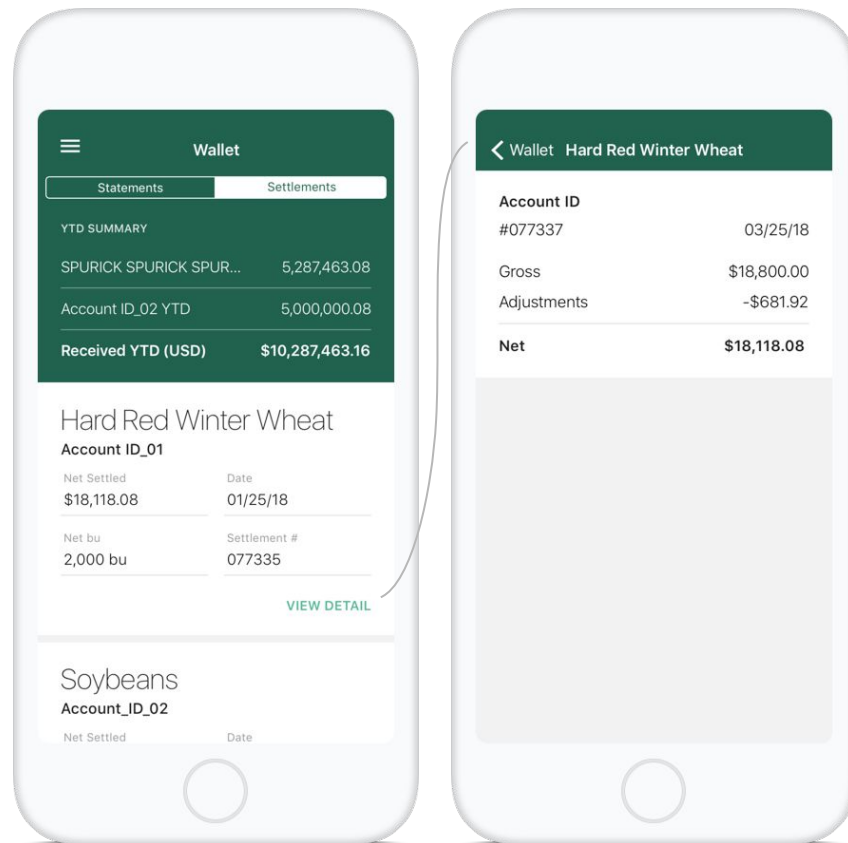
For the elevator it's easy to upload and use, and quick for the grower to sign.



settlements

Delivering information pertinent to growers' revenue forecasting

In Design Phase

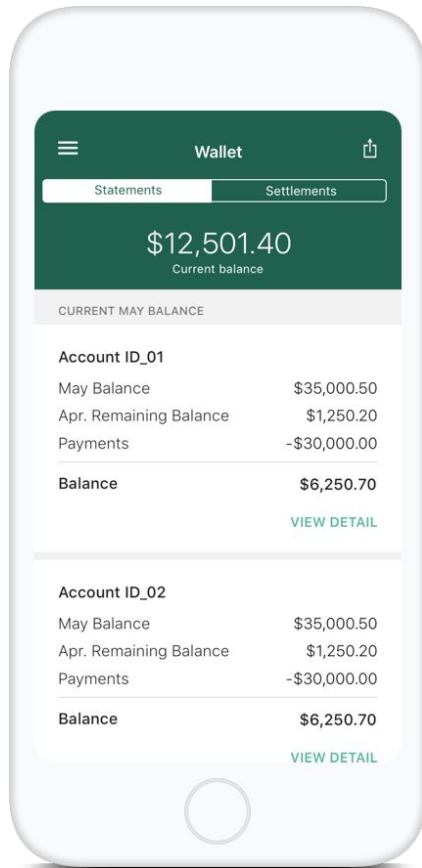


statements

Reduce accounts receivable days with quicker delivery of statements

Keep growers informed of their balance, seeing balances and statements faster than traditional mailing method and limiting doubtful accounts .

In Design Phase



**Bushel is enabling clear
and simple business
between grain facilities
and their growers.**

(Because you don't call the bank to check your balance anymore)



US Market Share

16%

Customer Churn

2%

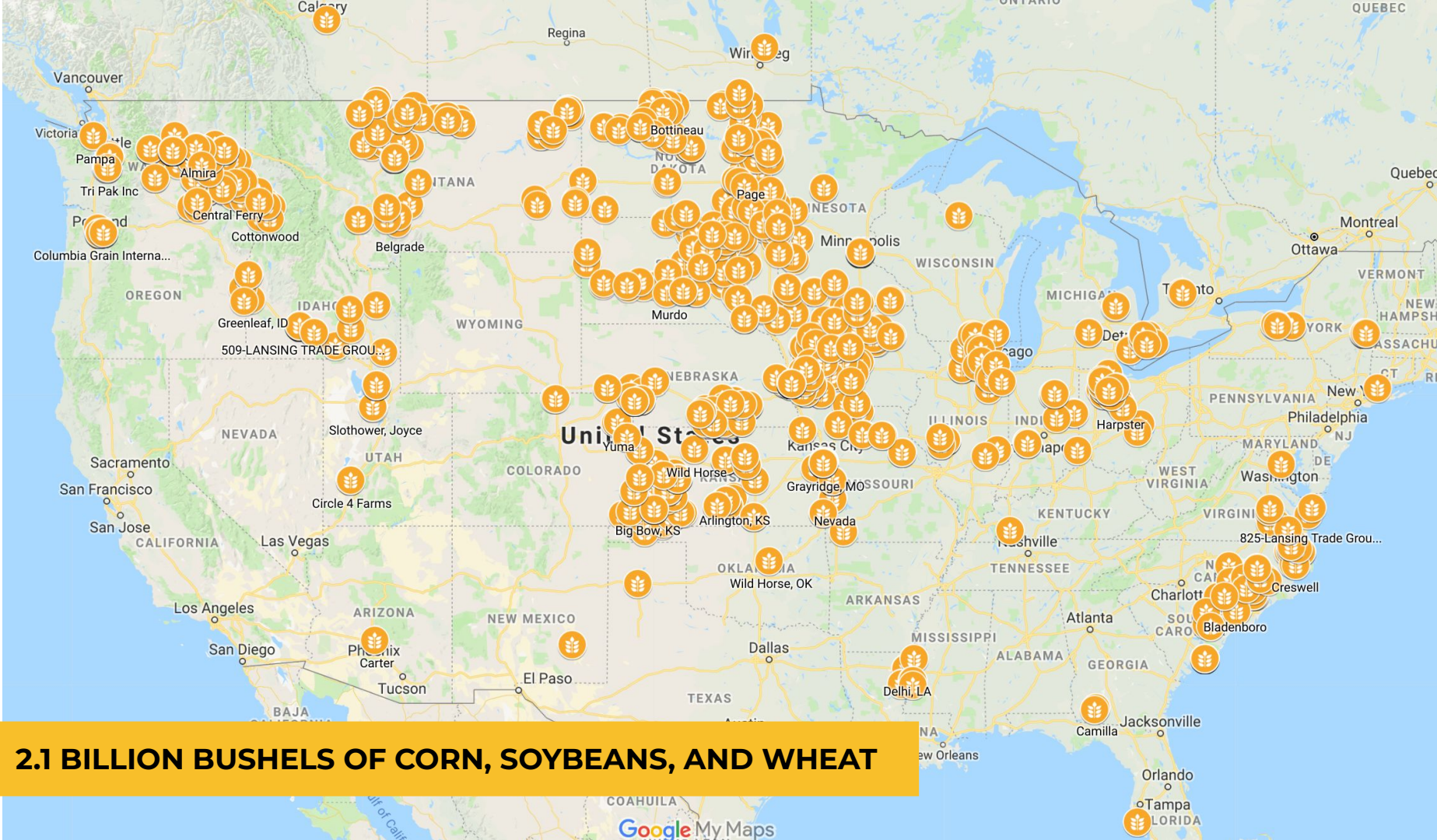
Monthly Active Users

18,407

Power Users

12,326



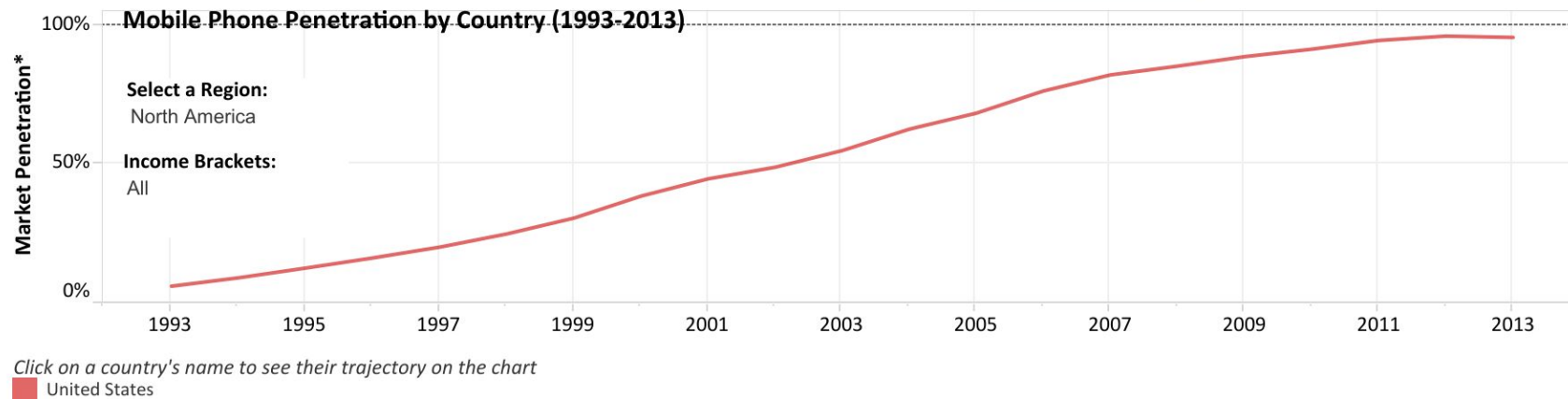


2.1 BILLION BUSHELS OF CORN, SOYBEANS, AND WHEAT

ERP INTEGRATIONS



Right Place, Right Time

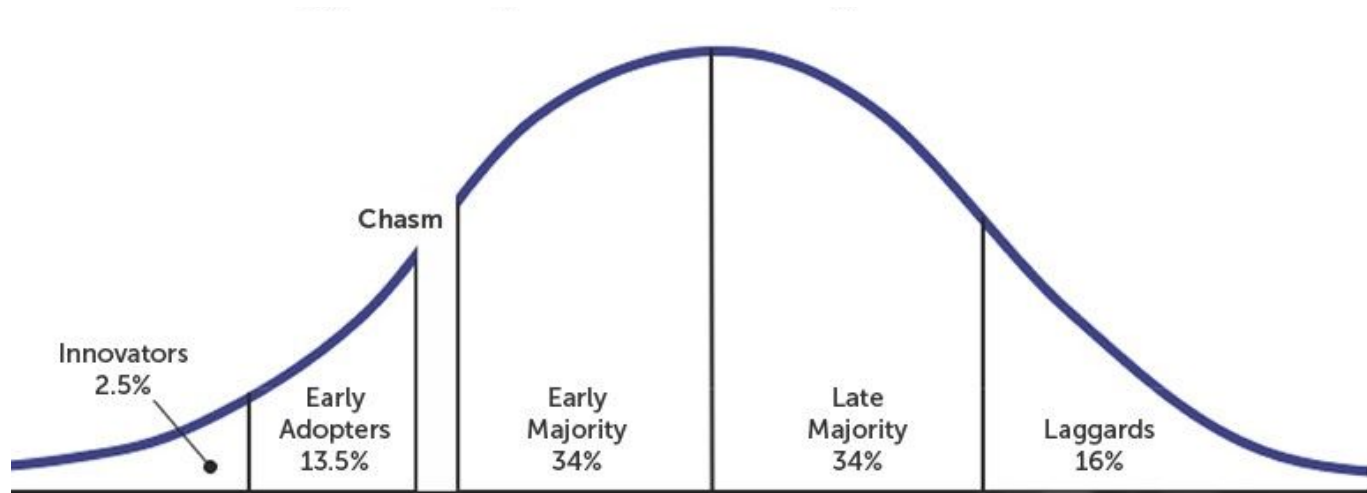


*Market Penetration greater than 100% means more than one mobile phone per person.

Source: World Bank, Cartesian

<https://blog.cartesian.com/the-rise-of-mobile-phones-20-years-of-global-adoption>

Technology Adoption Life Cycle



Technical Challenges we've dealt with

VARIETY

- ERPS / Accounting Systems
 - SQL, Flat Files, AS/400, Pervasive, etc.
- Crops, Commodities & Locations
 - Kansas City Hard Red Winter Wheat

VERACITY

- Phone numbers
- On-site
- Push / pull
- Time Zones
- Deleted data

“Veracity refers to the biases, noise and abnormality in data ... you need to have your team and partners work to help keep your data clean and processes to keep ‘dirty data’ from accumulating in your systems.”

<https://insidebigdata.com/2013/09/12/beyond-volume-variety-velocity-issue-big-data-veracity/>.”

Technical Challenges we've dealt with

VELOCITY

- Data Pull
 - Tickets, contracts, splits
 - Every 5 minutes
 - Daily + additional
- Data Push
 - Real time triggered events
- Market Data

VOLUME

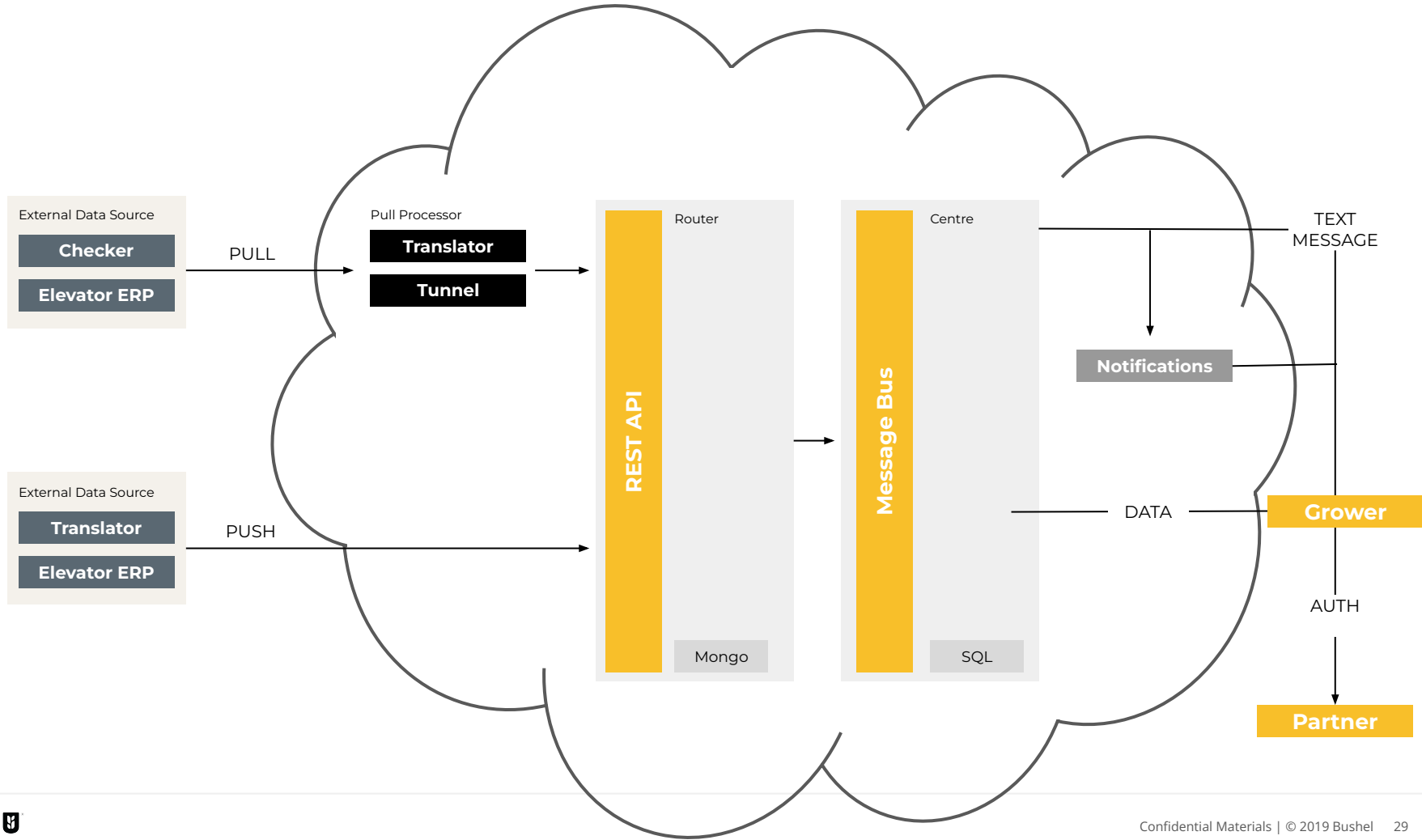
~ 18k Active Users

~ 2.1 Billion Bushels

2019 Indicators:

~ 8.2 million tickets

~ 1.4 million contracts



"Quality Seed Doesn't Cost, It Pays"

POWERING POSSIBILITIES

Imagine a future where grain is tracked and monitored through every purchase across the supply chain, where reports can be shared with a click of a button.

Land O'Lakes Uses Visibility and Velocity to Combat Supply Chain Variability



Steve Banker Contributor

Transportation

I cover logistics and supply chain management.

“... supply chain management has not changed at all. We are still moving stuff from point A to point B, ... What changed? Visibility, variability, and velocity. With more variability, you need to move faster. To do that you need more visibility.”

- Land O'Lakes, Inc. Chief Supply Chain Officer, Yone Dewberry

BUSHEL CONNECT:

**Data sharing across the
supply chain, through
resilient and robust
services.**

Bushel Connect



Producer

CONNECTED



Elevator

CONNECTED



Food Processor,
Ethanol Plant,
Feedlots

Logistics | Agronomy Inputs | Crop Insurance | Accounting Systems

Core Tools

Bushel-powered App

Your elevator's app with clear and simple business information

Bushel-powered Website

The web presence for your grain business

Connect

Bushel-powered API

(In Beta)

Data standardization and sharing across the supply chain

Bushel-powered Portal*

Convenient data exporting and reporting

Trading

Bushel-powered OMS*

Streamlining workflow and removing risk for merchandisers

*In Planning and Development

Technical Challenges We're Solving

DATA WRANGLING

- ML & AI
 - Classification
 - Categorization
 - Standardization

Crops, Commodities, Locations

DATA FIDELITY

Kansas City Hard Red Winter Wheat

DATA STREAMING

- Subscriptions and webhooks

DATA QUERY AND MANIPULATION

- GraphQL??

IMMUTABILITY

- Blockchain

Bushel Vision:

**To connect and enhance the
Grain Industry through
digital infrastructure.**

WHO WE ARE

**We're a software
company in Fargo,
ND, made up of
farm kids.**

WHAT WE DO

**We build software
for grain retailers
to better serve
growers.**





150

teammates strong
(and counting)



87th Percentile

Officevibe Employee
Engagement Score

High Autonomy, Innovative Culture

110+ teammates, less than 4% turnover
Servant leadership

We're Farm Kids ...





PARTNERSHIPS

***better
business
for all***





SEE
WHAT'S
NEXT

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1
OR
2

