intellect SEEC...

NEVER STOP INNOVATING

FOCUS: DATA

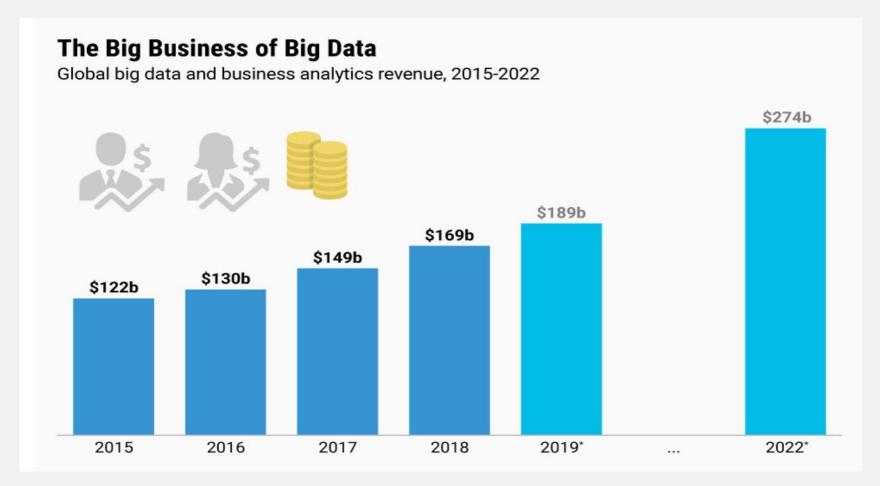


Why Data?

US Commercial Insurance Market	USD Millions \$314,925
US Commercial IT Spend (@4%)	\$12,597
Estimated US Commercial Packaged Software spend	<u>\$1,575</u>
vs.	
Verisk insurance revenue	\$2,440
Transunion	\$2,317

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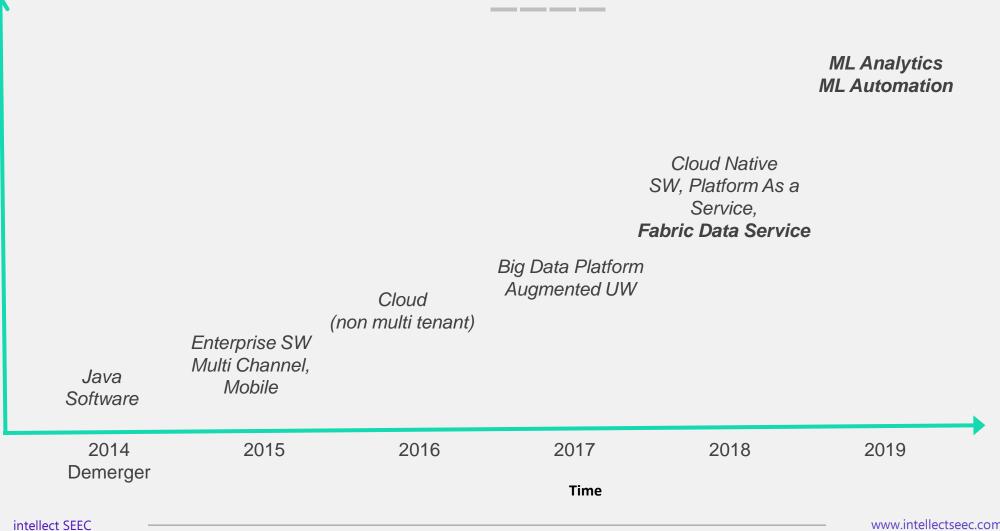
Why Data?



Source : IDC



The Intellect Journey





Fundamental Promise

Intellect is making investment in Tech an appreciating asset for Insurers

High Dimensional Streaming& Big Data



New Age ML Algorithms for core functions



Software
That Automatically
Evolves and Improves



WHAT DO WE DO?

Create Magic With Data, Analytics and Software

Data

Platform designed to be default source of all 3rd party data: Assimilate new data sources

Analytics

Partner to build, test, deploy and continuously refine predictive models with High Dimensional Data

Cloud Software

Cloud Native SAAS for Intake of commercial submissions, Risk Assessment and end to end Underwriting workstation

Use Cases in Production with Major US Carriers

- Prospecting
- Quoting
- Underwriting

- Loss Control
- Renewals
- **Actuarial modeling**

Business Model

Highly Scalable, Addictive and Value Growing

Data

- API Based
- Per Click (w minimum annual subscription)
- Different data packets of increasing cost and sophistication
- Creating new disruptive data elements (raw + derived score using AI)

Analytics

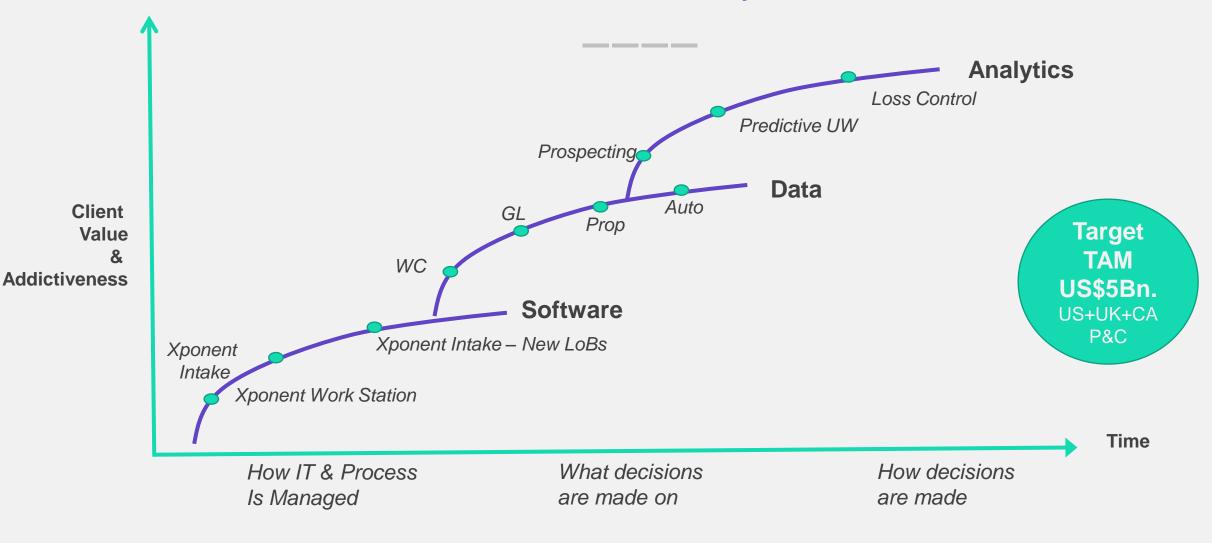
- Per use license model to grow with scale
- Creating our own disruptive predictive score
- Co-creating lift models with Insurers
- Replacing traditional rating and underwriting models

Cloud Software

- SAAS Subscription
- Attractive entry level pricing
- Priced in premium bands to increase with client growth
- Creating opportunity for upsell of new APIs/ module
- Major price revision opportunity at renewal

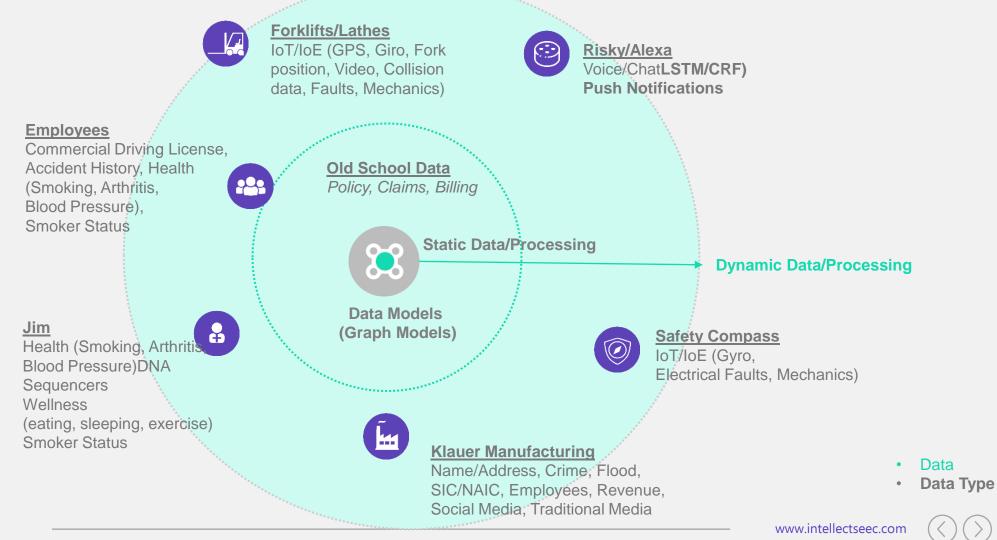
AIM: Adoption today, Standardization tomorrow, driving Exponential Monetization

Client Journey



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Data world is exploding and enabling game changing use cases



The Industry has a big Data Problem

Big Data & Al Should be the answer, but there are complications

- 1. User submitted data, particularly from brokers is messy, inaccurate and biased against the carrier
- 2. Data quality from traditional sources is inaccurate, low coverage and expensive
- 3. Startups mostly have not setup partnerships with ecosystem providers even open data needs permissions for commercial use
- 4. Modern aggregators data is simply dumped and not organized by Company, Locations & People
- 5. Curated databases are obsolete in weeks
- 6. Most traditional sources can not deal with Streaming / IoT

Intellect FABRIC

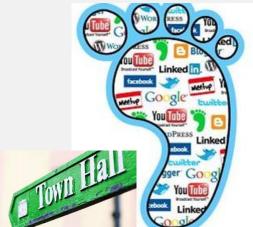


Enterprise Big Data Platform



Chat bots No Fill UI Data Enrichment

Distribution



Intellect Fabric Data Service

Search > Match > Aggregate > Contextualize > Analyze

Risk Analytics

Underwriting

Predictive Rating



Fraud Investigation
Customer Feedback
Intelligent Document Management
Workflow Automation
Call Centre Monitoring

Operations

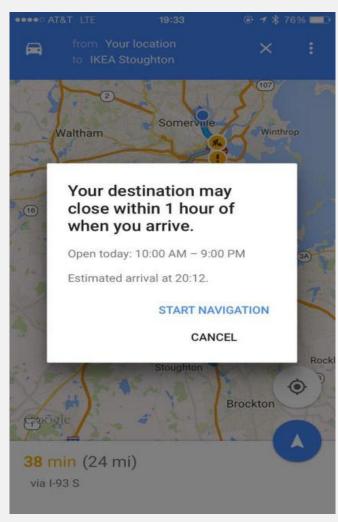








Using Data to make magic: Insight + Foresight



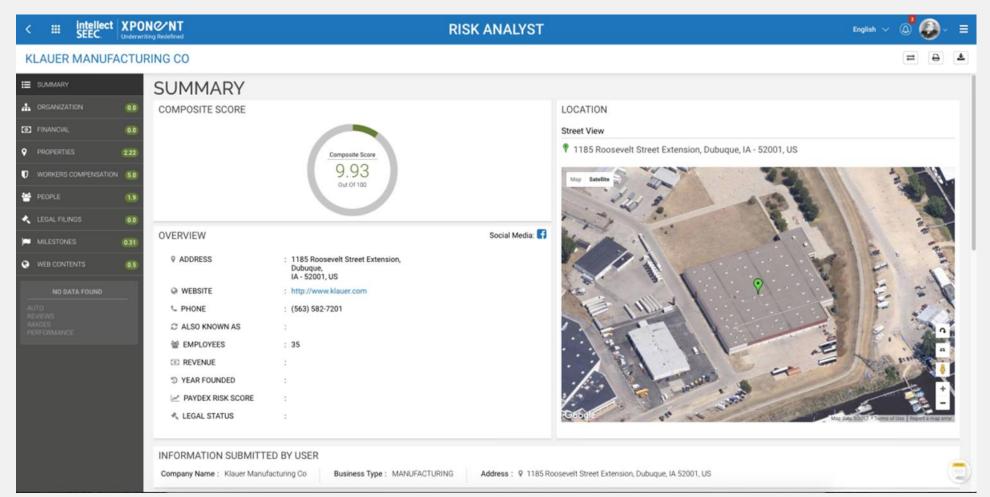
• The trick is not that the app was able to trigger a some rule:

```
if get_from_api(destination_close) < 1hr
alert("Blah Blah")</pre>
```

- The trick was to infer you will arrive at 20:12 based on
 - Weather conditions
 - Road conditions
 - Historical traffic patterns vs. Current traffic patterns
- And the destination was only open from 10:00 AM 9:00 PM
- Key Point Google collected 10 years of data to industrialize this use case



Use Data to make magic: Insight + Foresight



.com (

Computer vision

A picture is worth a thousand words.....But...



...does your system know how to read?

Computer Vision

...it can with Deep Learning!

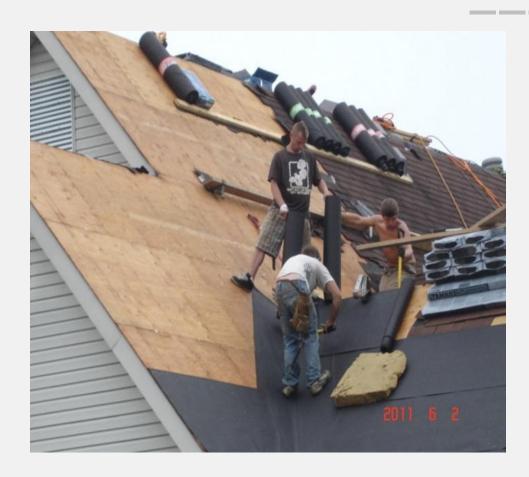


Image credit: OSHA « Safety Training Resources News & Blog

roof (0.97624326)

people (0.9719751)

family (0.9543848)

man (0.9538991)

house (0.9445791)

construction worker (0.930442)

roofer (0.9325291)

adult (0.9107766)

action (0.9062755)

business (0.9005916)

safety risk(0.97167285)

rooftop (0.92714784)

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The Intellect SEEC Difference?

Best and Most Insurance Data in the World

1. Velocity

2. Variety

3. Veracity

Volume

Organized

Accessible

Insight + Foresight

Search based - Most recent and accurate results

Private data, open data, surface web, dark web, social and streaming

Match the right entity + Triangulate the element of truth from multiple sources of "truth"

Data from any source on earth + cost engineered + commercially usable

Data entities and relationships are matched and ready to use – no need to build datalake

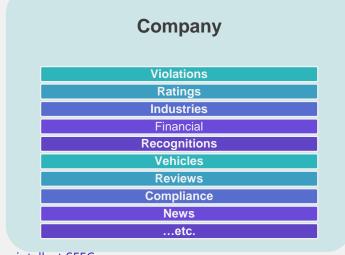
Query Big Data like structured data with easy to configure packages + push alerts to guide end user

Use the first proven "lift" elements derived from unstructured sources

Variety

8000+ SOURCES FROM STRUCTURED TO UNSTRUCTURED

Company	Location	Person	Unstructured
120	22	13	8,155







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Volume

Vast and Rapidly Growing Library of Raw & Triangulated Data and Predictive Insights

Data Value Chain

		1 33 3 3 3 1 1	, ,				3 (
	Roadmap	Standard Data	Triangulated Data	Triangulated Score	Rule Based Insights	Big Data Insights	Grand Total
A - Company	324	818	77	3	23	136	1381
B - Location	384	345	49	15	10	2	805
C - Person	35	23	24	0	0	2	84
Grand Total	743	1186	150	18	33	140	2270

We are collecting multi-year runs to develop Big Data based <u>Predictive Scores</u> (foresight)

Aggregation (Information)

■ Industrial strength Big Data requires the time dimension — vendors/clients who have not started will be left behind

Data Type	Description
Standard Data	This data is pass through from the underlying data sources
Triangulated Data	This data has algorithmic (ML & Rules) calculations done to improve veracity
Triangulated Score	This data has algorithmic work (ML & Rules) for veracity and also modeling done to turn it into a score
Rule Based Insights	This data has been derived from domain based rules from sitting with key SMEs
Big Data Insights	This data has been derived from ML algorithms from unstructured/structured data (i.e. Question/Answer pairs)

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Insights (Knowledge)

API Based Data Service Model

	Company	Location					
Data Element ID	Data Element	Data Element ID	Data Element				
C100011	Years in Business (Start Date)	L100003	Location Address				
C100309	Legal Names	L100004	City				
C100167	Legal Status	L100005	Zip				
C100002	Annual Revenue	L100007	State				
C100006	# Employees	L100038	Year Built				
C100012	Industry (NAIC)	L100039	Square Footage- building				
C100013	NAICS Description	L100050	Construction Type				
C100014	Industry (SIC)	L100051	# Stories				
C100015	SIC Description	L100158	FIPS Code				
C100339	BBB Rating	L100334	Latitude				
C100016	D&B #	L100335	Longitude				
C100514	Any Product Recalls?	L100345	FPC code				
C100140	Is the establishment open 24-hours?	L100209	Wildfire Risk				
C100310	DBA Names	L100222	Earthquake				
C100009	Social Media Score	L100244	Flood				
C100157	Industry Information	L100201	Wind (Straight-line, Tornado, Hurricane)				
C100158	Company Description	L100206	Hail				
C100020	Organization - Headquarters	L100025	Distance to Shore				
C101199	Hours of Operation	L100363	Tornado				
C100159	Website	L100365	Lighting				
C100479	Department of Transportation Number	L100441	Toxic Release Facility Distance				
	Have there been any health code violations in the						
C100126	past three years?	L100227	Crime				
C101078	Approximate number of Locations	L100399	Forcible Robbery				
C100774	Number of Employee Reviews	L100403	Motor Vehicle Theft				
C100478	Type of cargo carried	L100397	Murder				

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Disruption of Traditional Data Monopolies

Intellect Data: August Release

(C101329):

Intellect Delinquency Score Underwriters can currently get information on past delinquent payments. But there has always been a concern regarding predicting the future occurrence of missed or late payments. Intellect's Delinquency Score predicts the probability of severe payment delinquency for the leading 12 months.

Intellect Payment Grade (C101330):

Intellect Payment Grade is a six-point distribution indicating the change in payment behavior. The value of this field ranges from 1 to 6, where 1 represents the highest risk of failure and 6 represents the lowest risk of failure.

Intellect Slow Pay Grade (C101331):

Intellect Slow Pay Grade assesses the probability of a company paying its bill before the due date, which ranges from a value of LOW to HIGH.

Intellect Credit Grade (C101332):

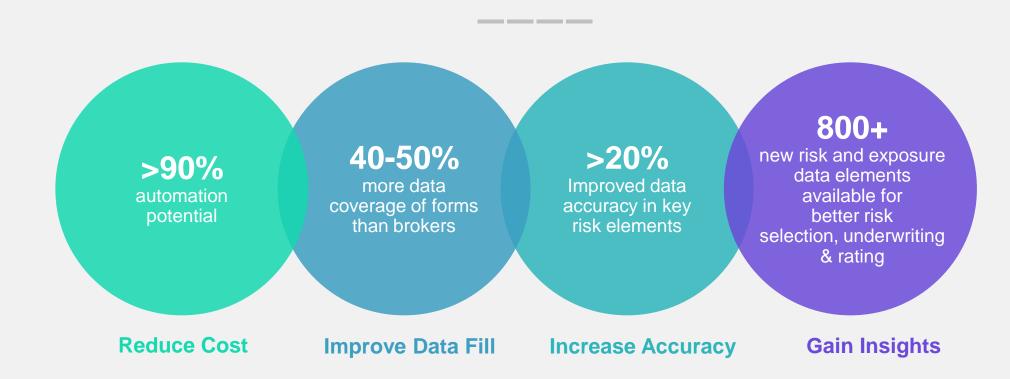
Intellect Credit Grade is a composite score of multiple credit bureaus. The Credit Scores are binned into a rating of A to E where A represents a high credit score & E represents a low credit score.

Al Opportunity - Automation Spectrum





"Data First" strategy in automation



90% increase in automation alone can achieve a potential of:

- 60% reduction in median prep cost for new application and renewal (from \$112 to \$40 per submission)
- 80% reduction in median time to reach underwriter (from 3hrs to 25mns)

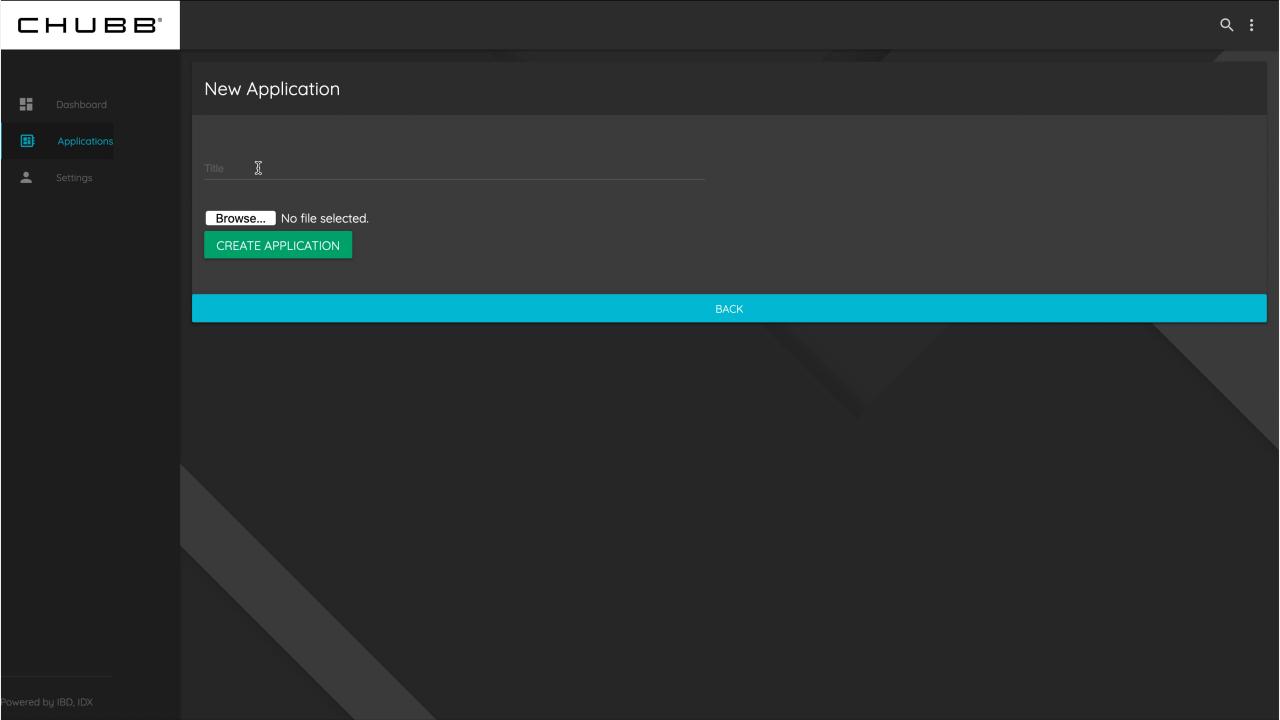
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ADDITIONAL INTEREST SCHEDULE				HOTEL / MOTEL SUPPLEMENT						STATE SUPPLEMENT (If applicable)						
ADDITIONAL PREMISES INFORMATION SCHEDULE				INSTALLATION / BUILDERS RISK SECTION						VACANT E	BUILDIN	G SUPPLEMENT				
APARTMENT BUILDING SUPPLEMENT			INTER	NATIONAL LIABILITY	Y EXPOSURE SUPPLEMENT				VEHICLE SCHEDULE							
CONDO ASSN BYLAWS (for D&O Coverage only)			INTERNATIONAL PROPERTY EXPOSURE SUPPLEMENT													
CONTRACTORS	SUPPLEMENT				LOSS	SUMMARY										
COVERAGES SCH	HEDULE				OPEN	CARGO SECTION										
DEALERS SECTION	DEALERS SECTION PREMIUM PAYMENT SUPP			IUM PAYMENT SUPPL	LEMENT											
DRIVER INFORMA	ATION SCHEDULE				PROFE	ESSIONAL LIABILITY	SUPPLEM	ENT								
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Opportunity Space GTM Evolution

Verticals

- 1. US Commercial Insurance
- 2. Secondary markets commercial Insurance
- 3. Emerging Fintech
- 4. Established Banking
- 5. CRM

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6. Other Mini verticals

Use Cases

- 1. Data Validation
- 2. Data Enrichment

Pilot Phase

- 3. Document Extraction
- 4. Analytics based use cases (Underwriting, Claims Fraud, Risk Scores, etc)

Channels

1. Complex Enterprise Sales

Pilot

- 2. Simple Enterprise Sale
- 3. Market Place

0

- Junto
- AWS Marketplace
- App Exchange
- 4. 3rd Party sales
 - Transunion
 - Verisk
- 5. Embedded in 3rd party software and analytics

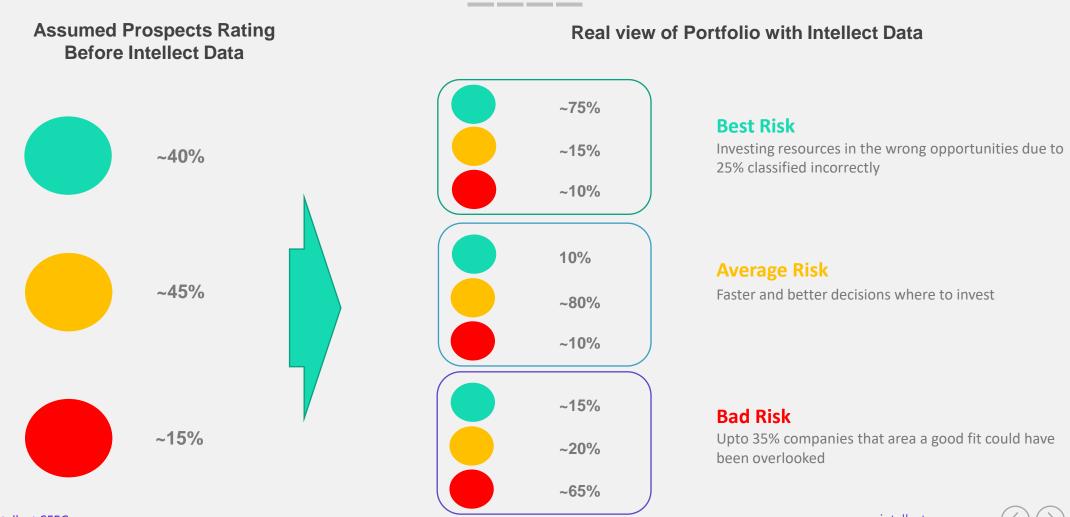
Pilot Q3/ Q4





Example 1: Sharpened prospecting and Prioritization

Finding right prospects and prioritizing to top of que



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Example 2: Data for Insights at Scale and Velocity

Scan book in minutes for key risk elements

- Extract data deep within public sources (OSHA/SAFER)
- > 1,300 elements on every account
- Apply NAICS/SIC rules for eligibility with upto 20+ codes including reverse engineered 6 digit codes from text (job adds, websites etc.)
- Get Insights from Unstructured. e.g. "mechanical bull" and alert risk control for interventions



Example 3: Data Validation

Correcting erroneous input data for key Rating and Underwriting fields

Client Example: Classified as food services Vs. actual business is butchery

Standard Data: SIC 2011 - Meat Packing Plant (general)

Big Data Insights: Slaughtering/butchering (identified from Groupon)

Results:

- Different Classification for WC
- Insurer suggested different coverages might be needed
- Benefit from risk control





Text Mining to Accurately Answer key UW Questions: Liquor Example

Foth awarded business for fast-growing casual tavern brand, sister company of: ... bruary 17, 2017 02/17/2017

Source:

bus Short North concepts

Cameron Mitchell Restaurants is looking to add two fresh concepts in Columbus' Short North. The locally based restaurant chain has two stores in the works – DelMar at 705 N. High St. and Montauk at 711 N. High St. – according to documents filed with ...

Source: wv

Podcast C. seafood

row his restaurants

The situation is all driven by de the staurant business of going from the dish room to the board room. His first position was ...

The latest (• • • • • • uild House, will be led by general r • • • • • ney, left, and executive che • • • • right. The restaurant opens Thursday in the new Short North • • • • • • hoto courtesy ...

Source: ______

Unstructured Data collected

Show relevant & meaningful data to users

ensempasses 30 unite spenning 14 different restaurant cancepts, with locations in 12 states and further growth planned. Revenues approached \$200 million in 2017, and beverage alcohol makes up 30% of sales—roughly \$60 million a year. The company's diverse rectaurant portfolio is a great asset; instead of being known as a chain operator, it has earned a reputation for distinct, high-quality venues.



Expert standardized context (coaching and insights with recommended interventions)

Example 5

Cut Manual Underwriting Effort Cut from hours to minutes

Quantitative Benefit: Automation of Manual UW Effort

- Underwriter searches of 2 hours per account on source research
- Finding nothing in 30% of the cases
- Now guiding underwriters to actions within seconds
 - OSHA review ~ 15 minutes to seconds
 - SAFER review ~ 15 minutes to seconds
 - Internet search ~ 1.5 hours to seconds

Qualitative Benefits

- Consistency among UW staff
- Expert level guidance and calibration
- Arm every underwriter with the best knowledge





Major analyst Recognitions



Intellect SEEC's among Early Adopters of Al in Insurance Underwriting features.



Risk Analyst is one of the leading Predictive Analytics Solutions for US Insurers.



Risk Analyst rated the strongest in its ability to synthesize internal carrier data and present relevant customized data analysis.

One of the top four vendors globally in the report, 'Hype Cycle for P&C Insurance, 2016



Intellect SEEC featured for IT initiatives undertaker by LIC, one of the world's largest insurers.



Major Industry Awards & Recognition





































