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Insurance Analytics in Practice

A practical look at data analytics featuring:

Brian Millman, VP, MIB

Genevra Pflaum, AVP, Client Data

Warren Habib, CTO, Everplans

Moderated by **Mitch Ocampo, LOGiQ³**



Mr. Mark Zuckerberg

THE RAPID GROWTH OF GLOBAL DATA

The production of data is expanding at an astonishing pace. Experts now point to a 4300% increase in annual data generation by 2020. Drivers include the switch from analog to digital technologies and the rapid increase in data generation by individuals and corporations alike.

■ Size of Total Data
■ Enterprise Created Data
■ Enterprise Managed Data

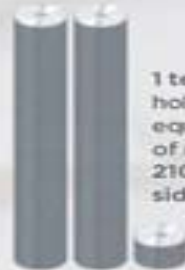
2012: CUSTOMERS WILL START STORING 1 EB OF INFORMATION.



2020: MORE THAN 1/3 OF THE DATA PRODUCED WILL LIVE IN OR PASS THROUGH THE CLOUD.

WHAT IS A ZETTABYTE?

- 1,000,000,000,000 gigabytes
- 1,000,000,000,000 terabytes
- 1,000,000,000,000 petabytes
- 1,000,000,000,000 exabytes
- 1,000,000,000,000 zettabyte



1 terabyte holds the equivalent of roughly 210 single-sided DVDs.

It took roughly 1 petabyte of local storage to render the 3D CGI effects in Avatar.

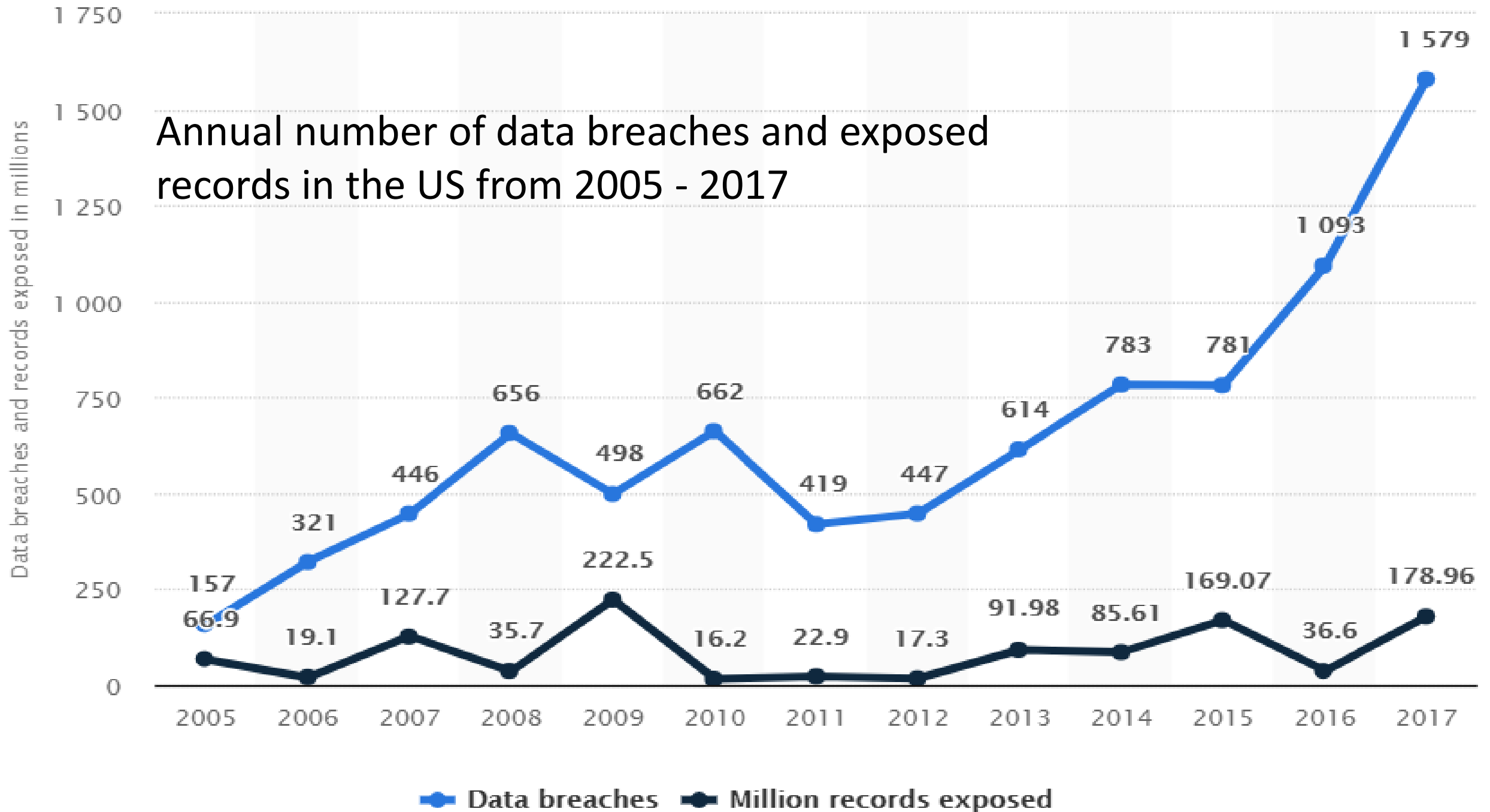


In 2007, the estimated information content of all human knowledge was 295 exabytes.

DATA PRODUCTION WILL BE 44 TIMES GREATER IN 2020 THAN IT WAS IN 2009

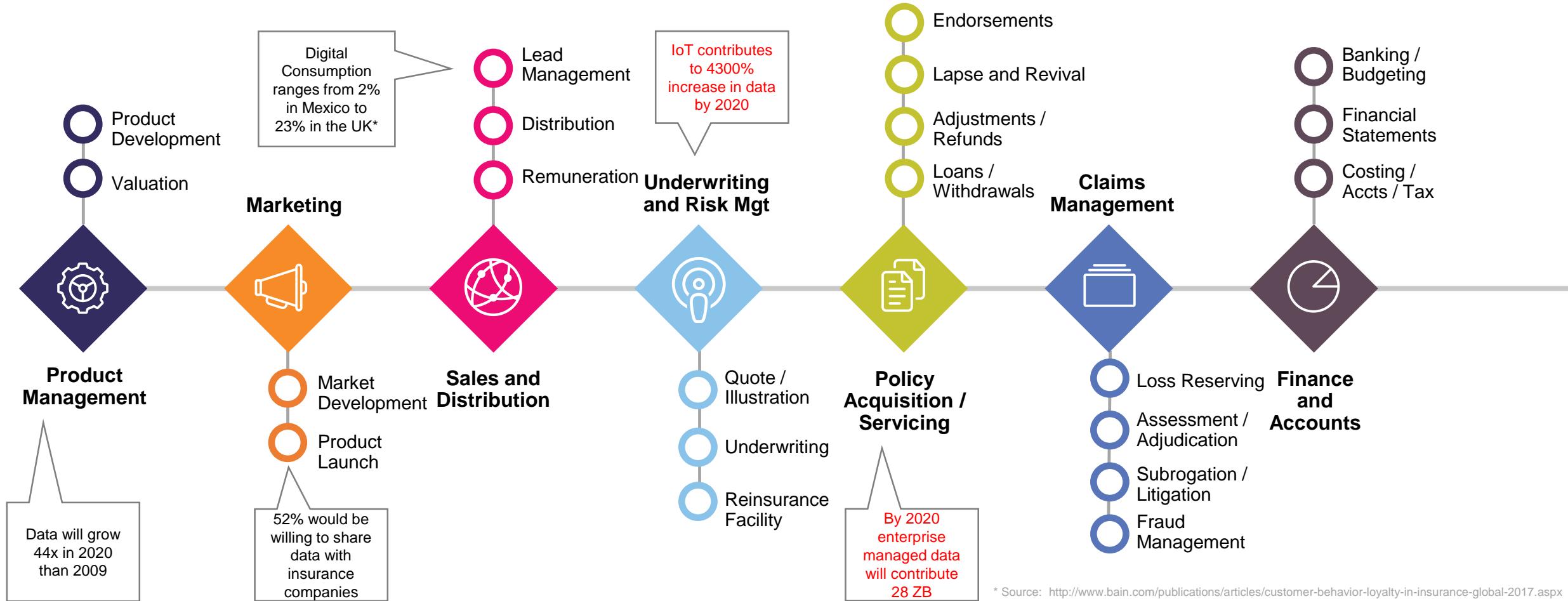
More than 70% of the digital universe is generated by individuals. But enterprises have responsibility for the storage, protection and management of 80% of it.*

Annual number of data breaches and exposed records in the US from 2005 - 2017





The Policyholder Journey



* Source: <http://www.bain.com/publications/articles/customer-behavior-loyalty-in-insurance-global-2017.aspx>

Brian Millman

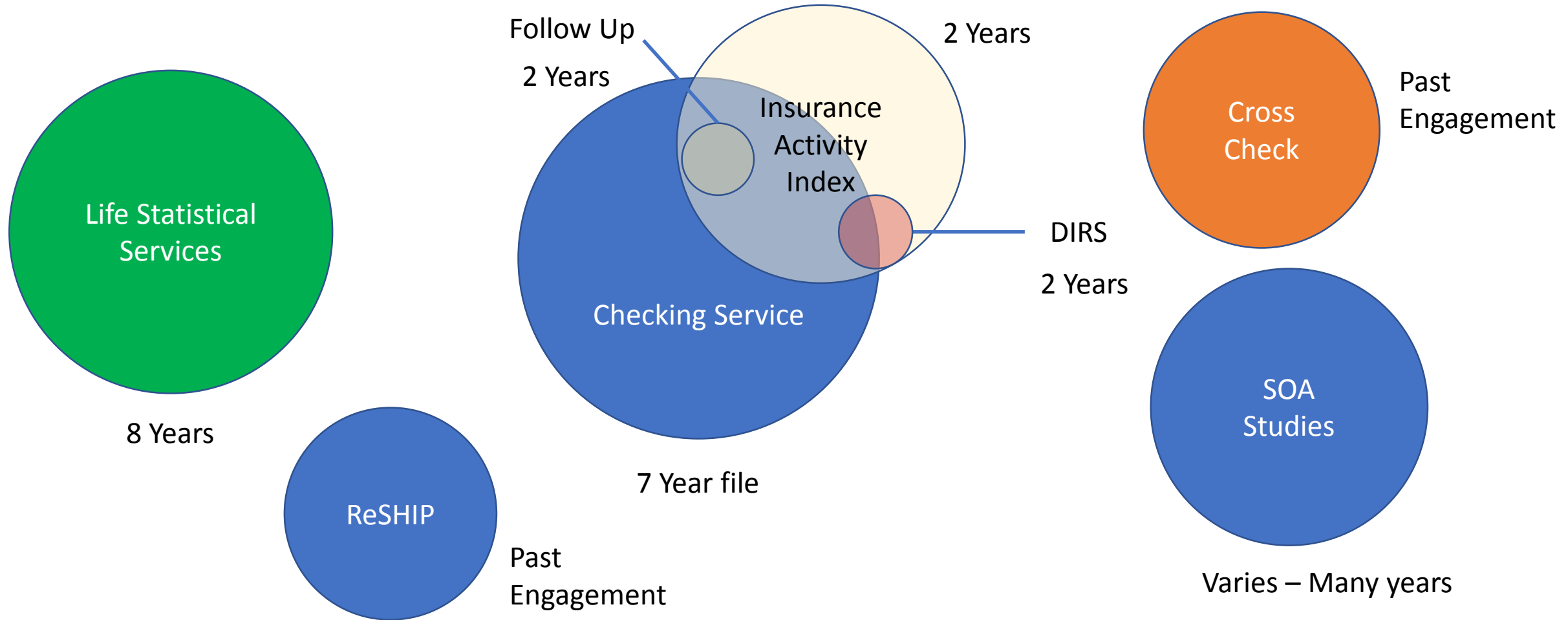
Vice President, MIB

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MIB Data



Data Classification

MIB requirements drive the data classification



- Regulatory (HIPAA, FACTA/FCRA, State Data Privacy Laws, Country Laws)
- Contractual: Master Service Agreements (MSA's), Business Associate Agreements (BAA's), Privacy and Confidentiality Agreements, MIB Services' (Cross Check, HRID) Agreements
- MIB company decisions (payroll)

Data Classification drives the protection requirements

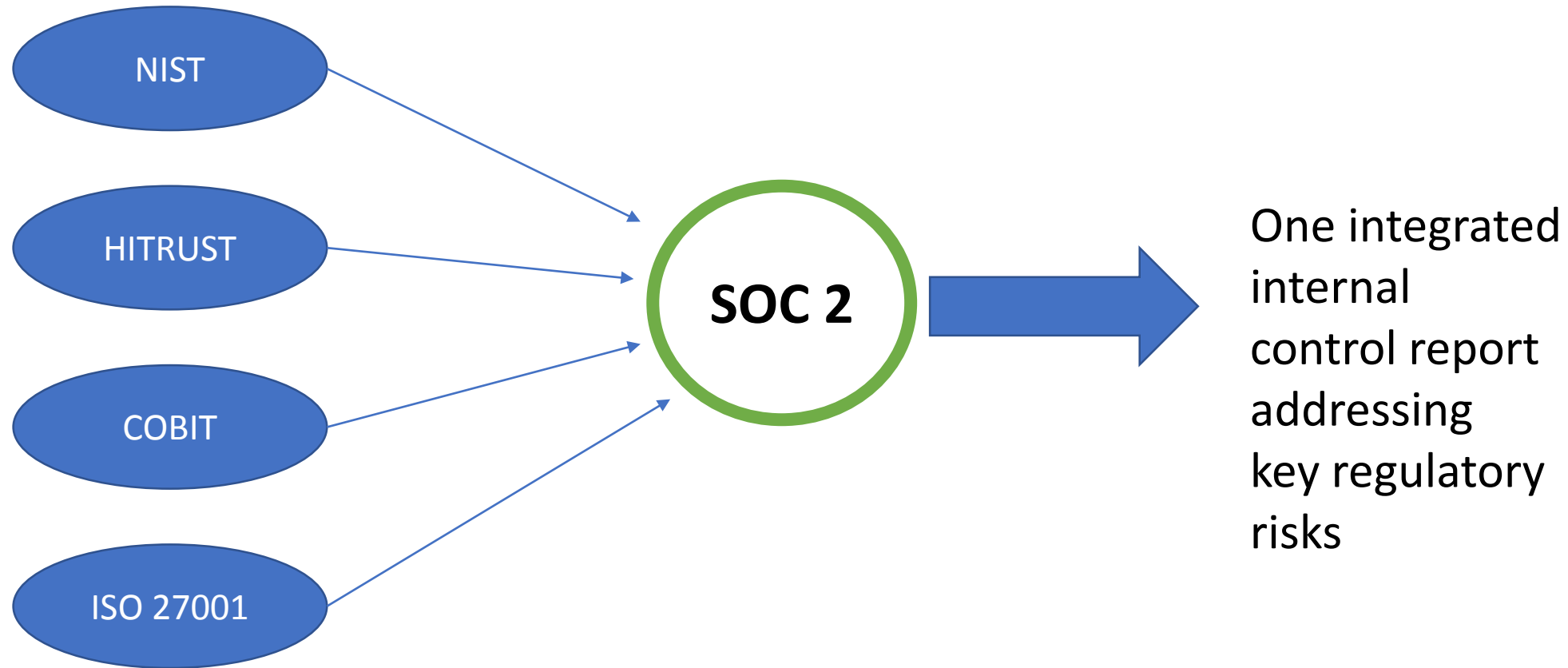
Data Classification

- Consumer-Protected Data
- Company-Protected Information
 - Confidential Information
 - Proprietary Information
- Public Information

DATA
CLASSIFICATION



Certifications



Data Handling

Data access



Data coordination

Data Enrichment

Historic

- First Name
- Last Name
- MI
- DOB
- Residence
- Place of Birth

Enriched

- SSN
- Product Type
- Line of Business
- Face Amount
- Currency Type



Data Analytics

Examples

- MIB Life Index
- Impairment Trends
- ReSHIP
- MIDAS

Genevra Pflaum AVP, Client Data

Data Analytics – One Source of the Truth

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Multiple Sources

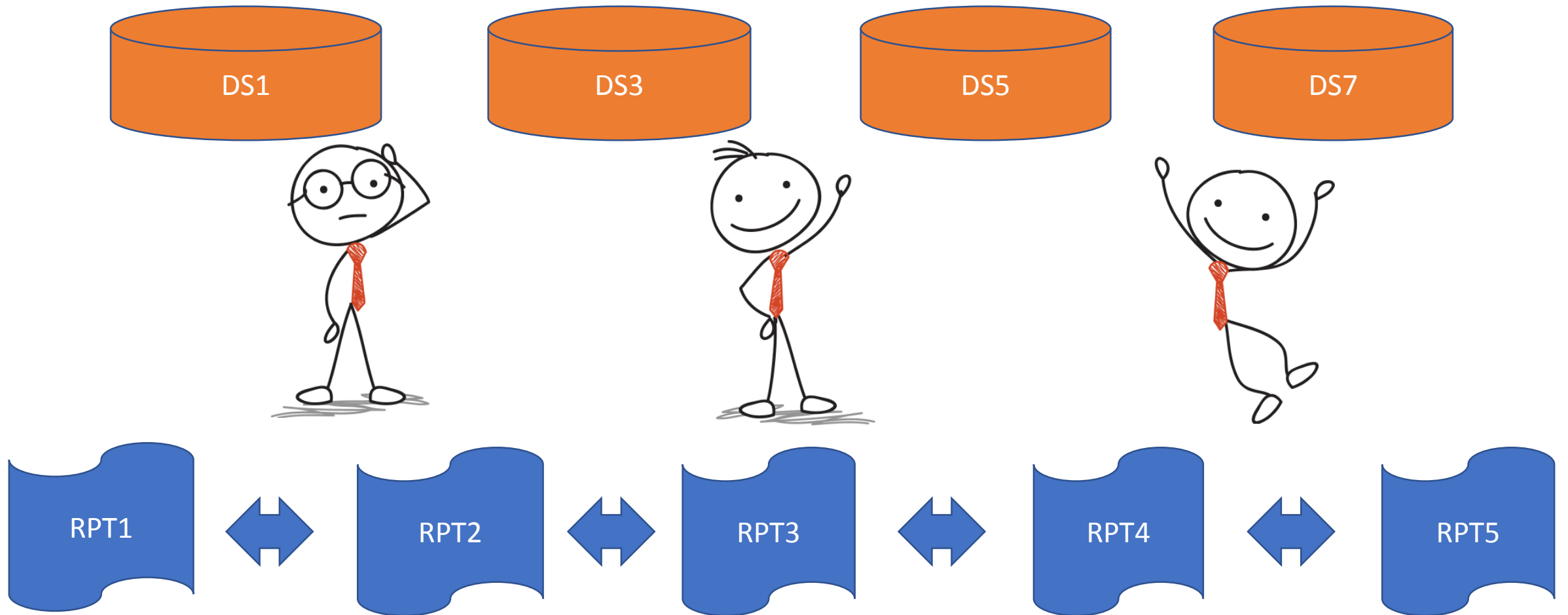
The Reinsurance Voice from Above

I need seriatim premiums and claims for the past 5 years for these 30 treaties. I need to know which are Fac, which are Joint, which are Conversions and which have reached Attained Age 85.

And I need it yesterday!

Treaty A
Treaty B
Treaty C
Treaty D
Treaty E
Treaty F
Treaty G
Treaty H
Treaty I
Treaty J
Treaty K
Treaty L
Treaty M
Treaty N
Treaty XYZ

Multiple Sources



Multiple Sources

I hear you're working on the data for "The Reinsurance Voice from Above". Remember that Treaty XYZ is incorrect in DataSource 7!



OH NO!!

Multiple Sources



One Source

Data Warehouse

- is a central repository of integrated data from one or more disparate sources. It stores current and historical data in one single place.
- Sounds great!
- Getting there as an organization takes some work...

One Source

Recommendation

- Form a data experts group with stakeholders from all the areas that would utilize the data warehouse
 - agree on mappings
 - meet regularly
 - document
- Have dedicated IT support

Examples of Inputs

- Standardized:
 - client inforce data files
 - validated client transaction files/premiums
 - client claim files
 - client reported reserve files
 - accelerated underwriting data
 - pricing data
- Actuarial treaty level mapping
- Administration system policies/detail and retro cessions
- Claims and Retro Claims
- Other?

Examples of Outputs

- Data used for Modeling
- Valuation for reserving information
- Experience Study data
- Corporate Retention
- Large Claims
- Premium validations data
- Cash flow analysis (treaty profitability)
- New business monitoring
- Any special look at the data, e.g. PLT analysis
- Any request from the Reinsurance Voice from Above

Benefits of One Source

Benefit	Description
Maximize Resource Utilization and Effectiveness	<ul style="list-style-type: none"> • Moving data validation and cleansing activities out of business processes allows for individuals to focus on core job activities.
Process Optimization / Efficiency	<ul style="list-style-type: none"> • Capture and automate one-off data transformation / enrichment activities in a consumption-ready source defined by a common and consistent standard representing the single version of seriatim data. • Business rules used to derive data would be applied once and used by many adding consistency to our processes. • Reduces process redundancies (e.g., ad hoc reconciliations) • Provide stability to data analytic processes
Data Availability	<ul style="list-style-type: none"> • Enhance data availability for key processes. Moving from a process where data is validated when needed by data set to a process where data is constantly maintained in order to always present the latest version without involving manual intervention.
Competitiveness	<ul style="list-style-type: none"> • Enhances the ability to consistently deliver studies and reports in a timely manner.
Earnings Analysis	<ul style="list-style-type: none"> • Enables improved alignment between earnings, pricing and experience studies.
Audit	<ul style="list-style-type: none"> • Potential reduction in audit pain points surrounding reconciling disparate data sets



Overview

Warren Habib
Chief Technology Officer

What is Everplans?

A life and legacy platform created to help people securely store, organize and share their most important information with the people they care about most.

An Everplan can include wills, life insurance policies, healthcare directives, online accounts, and other critical household information that oftentimes goes undocumented and unmentioned when families need it most.

Smart, Guided Vault

Everplans includes 29 sections across the following 6 categories:

- My Life
- Health and Medical
- Financial
- Legal
- Eldercare
- After I'm gone

Health & Medical

- Doctors
- Advance Directive
- Health Info
- Health Insurance

Financial

- Financial Advisors
- Financial Accounts & Assets
- Life Insurance
- Benefits & Pensions
- Disability Insurance

Legal

- Attorneys
- Will
- Power Of Attorney
- Trusts

Eldercare

- Care Providers
- Long-Term Care Insurance
- Eldercare Living Wishes

After I'm Gone

- Funeral Preferences
- Burial, Cremation, Or Donation
- My Life & Legacy
- Letters To Family & Friends

Secure Sharing


Help

Irving

Share your plan with someone you trust

Add a backup email so you don't get locked out

Your Advisor

 **Michael Acme**
CFP
Managing Director
Acme Financial
212-456-7890

Send an Email

Visit website

Suggested Items To Add:

Life Insurance

Make sure your family knows about your life insurance policy (you can add other policies later); What company did you buy it through?

Name of insurance company

Transamerica

Submit >

Ongoing Guidance

Everplans helps to hold the user's hand **guiding** them through each section encouraging them throughout the process.

The screenshot displays the Everplans website interface. On the left is a dark sidebar menu with categories: Health & Medical (Doctors, Advance Directive, Health Info, Health Insurance), Financial (Financial Advisors, Financial Accounts & Assets, Life Insurance, Benefits & Pensions, Disability Insurance), Legal (Attorneys, Will, Power Of Attorney, Trusts), Eldercare (Care Providers, Long-Term Care Insurance, Eldercare Living Wishes), After I'm Gone (Funeral Preferences, Burial, Cremation, Or Donation, My Life & Legacy, Letters To Family & Friends), and Secure Sharing.

The main content area has a top navigation bar with 'Help' and 'Irving' (with a dropdown arrow). Below this are two notification boxes: 'Share your plan with someone you trust' (with a checkmark icon) and 'Add a backup email so you don't get locked out' (with an envelope icon).

The 'Your Advisor' section features a profile for Michael Acme, CFP, Managing Director at Acme Financial, with a phone number 212-456-7890. Action buttons include 'Send an Email' and 'Visit website'.

The 'Suggested Items To Add' section contains a form titled 'Life Insurance' with a close button (X). The form text reads: 'Make sure your family knows about your life insurance policy (you can add other policies later): What company did you buy it through?'. Below this is a text input field with 'Transamerica' entered, and a green 'Submit >' button.

Ongoing Guidance

Within each section users can find general education on each life and legacy planning topic

The screenshot shows the Acme Financial website interface. The top navigation bar includes the Acme Financial logo (powered by everplans), a Help icon, and a user profile for Irving. The left sidebar contains a navigation menu with categories: Dashboard, My Plan (with a Preview icon), My Life (with sub-items: About Me, My Family, Emergency Contacts, Homes & Real Estate, Employment, Digital World, Vehicles, Pets, Miscellaneous), Health & Medical (with sub-items: Doctors, Advance Directive, Health Info, Health Insurance), Financial (with sub-items: Financial Advisors, Financial Accounts & Assets, Life Insurance, Benefits & Pensions, Disability Insurance), and Legal (with sub-item: Attorneys). The main content area is titled 'Life Insurance' and features a 'Manage Life Insurance' link and a 'Learn' link, which is circled in green. The 'Learn' link is followed by several sections: 'You Probably Know What It Is...', 'How Does It Work?', 'Types Of Life Insurance' (with sub-sections for Term Insurance and Permanent Insurance), 'How Much Insurance Do You Need?', and 'It's Complicated...'. On the right side of the main content area, there is a 'Get It Done' section with a checkmark icon, a brief description of the service, and a profile for Michael Acme, Acme Financial, with contact options: Send an email, 212-456-7890, and Visit my website.

Inside the Everplan

Users can enter as much or as little information as they want, and can choose to drag and drop or upload copies of files directly from their computer.

The screenshot displays the Everplan web application interface. On the left is a dark sidebar with a list of categories: Emergency Contacts, Homes & Real Estate, Employment, Digital World, Vehicles, Pets, Miscellaneous, Health & Medical (Doctors, Advance Directive, Health Info, Health Insurance), Financial (Financial Advisors, Financial Accounts & Assets, Life Insurance, Benefits & Pensions, Disability Insurance), Legal (Attorneys, Will, Power Of Attorney, Trusts), Eldercare (Care Providers, Long-Term Care Insurance, Eldercare Living Wishes), and After I'm Gone (Funeral Preferences). The main content area shows a form titled "Life Insurance: Policy Info & Document Upload". The form includes a text input for "Name of insurance company" with "Transamerica" entered. Below it is a file upload section with a dashed border and the text "Drop files here. Or select a file to upload...". The "Location of original policy" is entered as "In our desk drawer in the home office". The "Type of policy" section has radio buttons for "Term" (selected), "Permanent: Whole", "Permanent: Universal", "Permanent: Second to Die", and "Other". At the bottom, there is a text input for "What's the policy number?". The top right of the application shows a "Help" icon and a user profile for "Irving".

Insights & Analytics

How does Everplans approach data?

- Everplans is HIPAA-compliant, SOC-2 certified
- All information is encrypted at rest (several ways!) and in motion
- Data is owned by the user and can only be seen by the user and those they explicitly designate

We use metadata in two ways

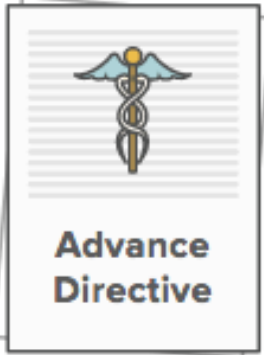
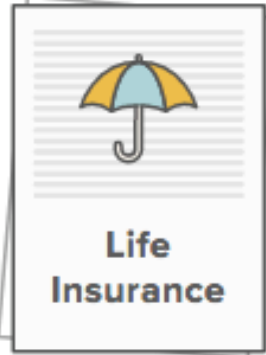
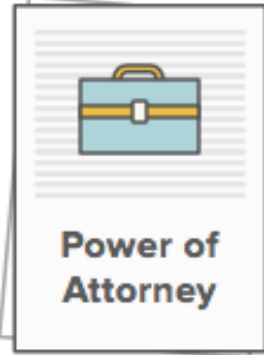

- In aggregate, to help provide recommendations on what you might want to complete next in your plan based on what people in similar circumstances do
- Individually, to identify gaps in your planning and offer opportunities to fill those gaps

Onboarding

Which of these do you have already?

Don't worry if you don't have some--or even all--of these. We can help you get a range of important documents and policies in place.

A green rounded rectangle highlights four document icons, each on a stack of papers with a checkbox below it:

- 
Advance Directive
- 
Life Insurance
- 
Power of Attorney
- 
Last Will & Testament

Continue

During onboarding we take the first few simple steps to help figure out where a user has a gap in their planning

Filling the Gap

Tackle Important Gaps In Your Planning:

Life Insurance



84% of people think life insurance is important.

59% of people actually have it.

Don't be in that weird 25%.

[Check out our Life Insurance Cheat Sheet >](#)

Want to see some options?

[Find The Right Policy](#)

Let users opt in to an experience to shop for insurance and get their permission to use their data to improve it



Thank You

Q&A Discussion



Conclusion



Could the future insurer be a...

Life Coach

Personal Trainer

Driving Instructor

Business Consultant



How will you rebrand?