

Society of Actuaries in Ireland

Innovation in Life Insurance Panel Discussion

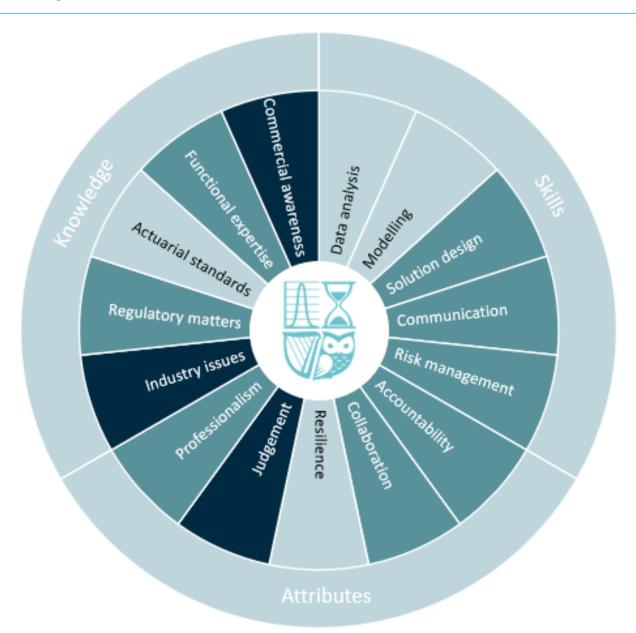
23 April 2021

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SAI Competency Framework Wheel





Life Reinsurance & Innovation Committee – Innovation Series

• Session 1: Wed 21st April 12.30pm: Life insurance pricing - the next frontier of innovation

Speakers: Shelley Cox, Chief Customer Officer and Stephen Carlin, UK Customer Success Director & Product Owner, both from Montoux

• Session 2: Fri 23rd April 10.00am: Innovations in Life Insurance – A Panel Discussion

Speakers: Jonathan Hughes, Managing Director, RGAX EMEA, **Phil Edbrooke**, Director, Protection & Innovation at Pacific Life Re and **Chris Reynolds**, Chief Pricing Actuary - EMELA Region at PartnerRe

• Session 3: Thurs 29th April 12.15 pm: Mental Health Underwriting – updating for current medical practices

Speaker: Scott Cadger, Head of Protection Underwriting, Claims and Commercial Strategy at Lloyds Banking Group

• Session 4: Wed 5th May 12.30 pm: Harvey Nash/KPMG CIO Survey 2020 – Everything changed. Or did it?

Speakers: Thorsten Schulz-Gerhardt, Director at KPMG UK



Life Reinsurance & Innovation Committee – Innovation Series

Committee Members:

- Aisling Bradfield
- Ciaran Belton
- Cillian Ryan
- Clara Leahy
- Eoin King

- Gavin Maguire
- Niall Mulvey
- Philip Shier
- Sarah Lynch
- Sean Nangle
- Svilena Dimitrova



Today's panellists



Jonathan Hughes
Managing Director –
EMEA at
RGAx



Phil Edbrooke

Director - Protection

& Innovation at
Pacific Life Re



Chris Reynolds
Chief Pricing Actuary
– EMELA at
Partner Re



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Innovation: A series of false choices?

23 April 2021

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Helping people live longer, healthier, more financially secure lives. Everywhere. RGAX is the transformation engine of RGA that leverages the talent, resources, and insight of RGA's 40+ years of innovation.

By partnering with carriers and entrepreneurs, we're incubating and accelerating new products and services to change the life insurance ecosystem.



The Security of Experience. The Power of Innovation.

Transforming Lives. Together.

Top Ranked

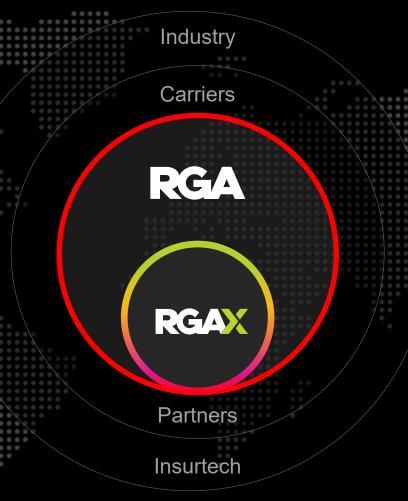
Life & Health Reinsurer

\$3.5 Trillion

In Force

\$76 Billion

In Assets



Transformational Engine of RGA

7 Services
Entities

Invested in **30+ Startups**



Highlights

Multiple initiatives that each now cover hundreds of thousands of lives

Catalysing a start-up that arguably has the world's most engaging life insurance app

Getting stuff done

Lowlights

Precariousness of the existence of the startups that are key partners

Negotiating across the table from millionaires who can make instant decisions

Getting stuff done slowly

"Actuarial lights?"

Dealing with financial uncertainty

Knowing what data and solutions are (and are not) valuable to the industry

Being comfortable with long time horizons before you know if what you did was successful





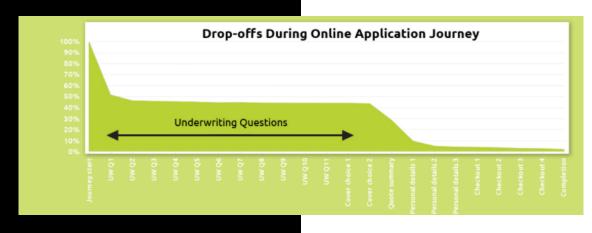


"Where do I start?"



Love solutions

Love problems



Source: https://www.rgax.com/blog/future-digital-life-insurance

"How do I lead?"

Wicked leadership

?



Tame & critical leadership

CRITICAL

- Short term
- Decisive action needed
- No time for analysis

EXAMPLES: Fire Systems failure EXAMPLES: Moving home Updating product suite

TAME

Causes are known

Time for management

Processes are known

WICKED

- Complex and messy
- Multiple causes
- Can't be entirely solved

EXAMPLES: Global warming Protection gap

Source: https://www.rgax.com/blog/wicked-problems-how-to-approach

C-suite





"Who can help?"

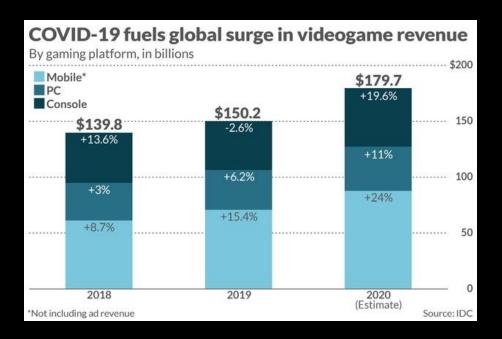
Decide who to invite

Identifying and engaging a productively diverse group of seven to eight stakeholders can be daunting, so follow these steps to help you select the right participants.

- Invite the right people: Once you've defined the problem (in the step above), you need to identify job roles that are impacted
 by it or are knowledgeable about it. The roles should be diverse. Think about who should be involved in implementing the
 solution across all dimensions, such as underwriting, claims, IT, administration and digital distribution.
- <u>Select backups</u>; After defining the roles, identify one person (and a backup) for each role. The people you select should have a strong line of sight into their area of the business and be able to articulate how their team functions and how it would be involved in or affected by a solution.
- <u>Choose a decider</u>: The decider is someone who can break ties in the sprint and often is the ultimate project owner, the sponsor, or the champion who will lead the project.

Source: https://www.rgax.com/blog/design-sprints-checklist

Middle management



Outsiders



Source: https://www.marketwatch.com/story/videogames-are-a-bigger-industry-than-sports-and-movies-combined-thanks-to-the-pandemic-11608654990

"Who else can help?"



Insiders

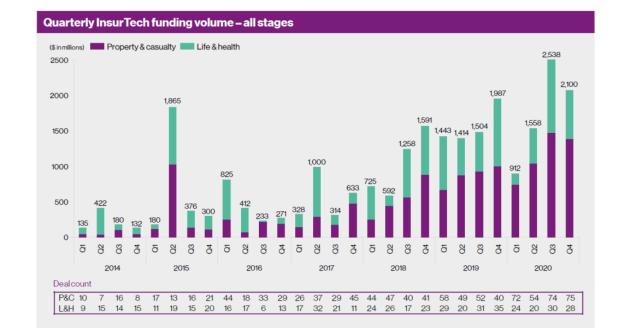
"How best to fail?"





Cheap

Fast



Source: https://www.cbinsights.com/research/report/insurance-tech-q4-2020/





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Innovation in Life Insurance Panel Session

23 April 21

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Innovation in Life Insurance

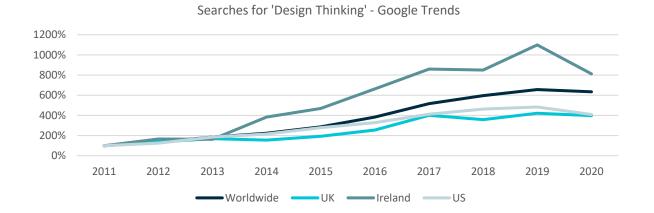
Embracing the uniqueness of the life insurance proposition







Design Thinking











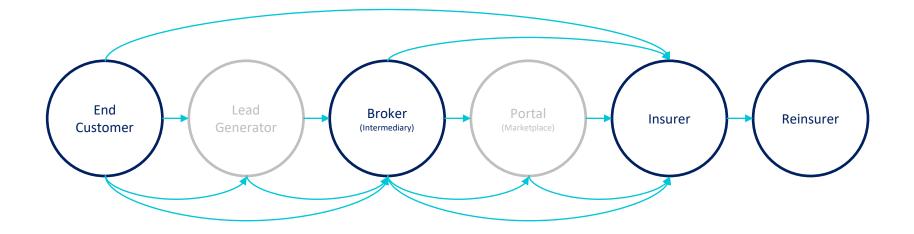
| Customer | Empathize | Empathize | Empathy | Empathy |
|----------------|-----------|-----------|--------------------------------|--------------------|
| | Define | Define | Inspiration | Expansive Thinking |
| | Ideate | Ideate | Ideation | |
| | Prototype | Prototype | Implementation and Prototyping | Experimentation |
| Feedback Loops | Test | Test | | |







Who is the Customer?



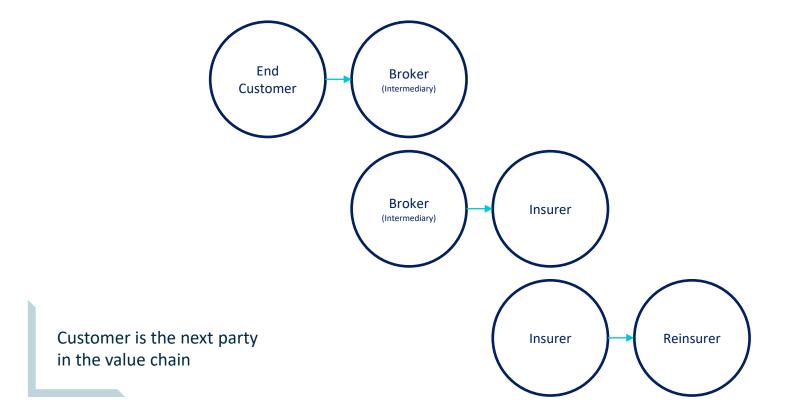
The protection market value chain is long and in most cases involves many parties who represent experts in their own field







Who is the Customer?

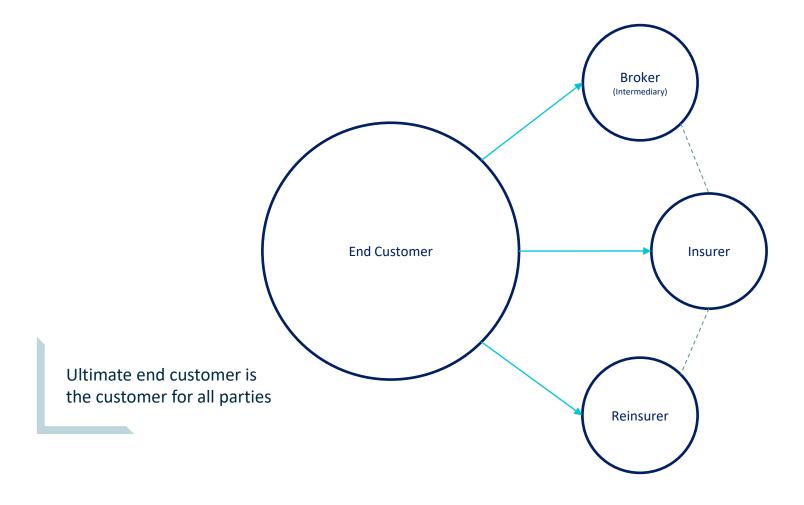








Who is the Customer?

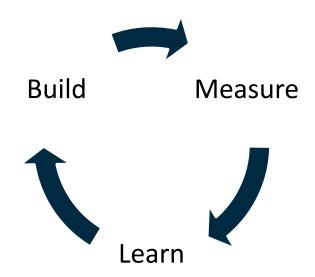








Prototyping (Feedback Loops)



If we're dealing with rare events long in to the future when are we going to know if we got it wrong?







Conclusion

Customer - Innovation in Product Development requires alignment. The next party in your value chain is important but allowing all parties to treat the end customer as a shared customer is crucial.

Feedback Loops - Creating feedback loops on long term business is a challenge, but not an insurmountable one. Widespread investment in data science provides one potential breakthrough solution.









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23/4/21

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Innovation in Life Insurance



Two roads diverged in a wood, and I—
I took the one less traveled by,
And that has made all the difference.

- Robert Frost



Pricing Function Challenges

Increasing Complexity

- Ever evolving industry and competitive pressure
- Pricing on new structures, new risk pools, etc.
- Blurring of lines between underwriting and pricing

Data integration and quality

- Need for accurate and timely data to make decisions
- Merged and integrated from multiple source
- Use of alternative data (e.g. health & wellness)

Advanced Analytics

- Lot of discussion and advances in recent years.
- Complementary (or competition?) to the actuaries
- Pushing pricing to the next level

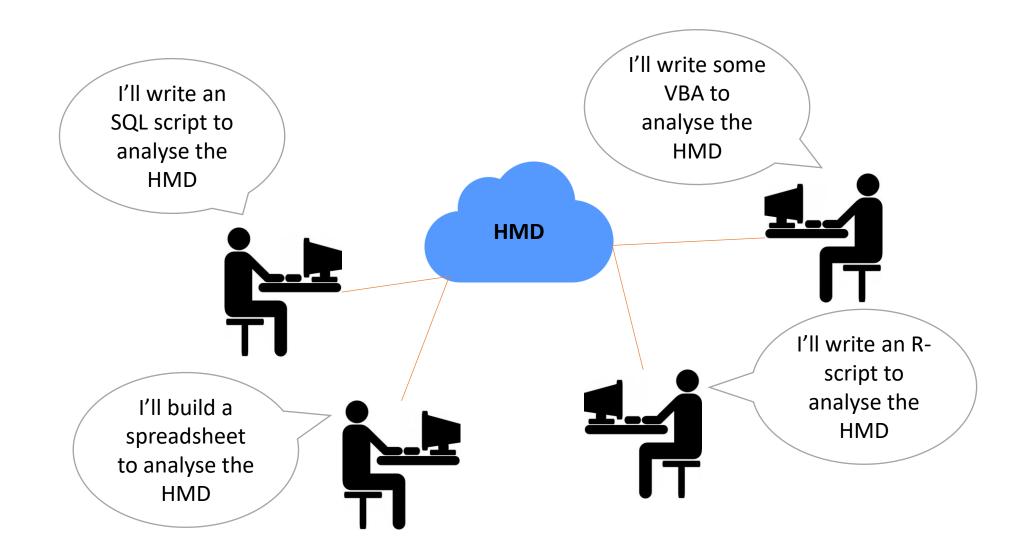
Technology

- Too much manual processing in many business practices
- Improvements to data management, technology systems and operational processes.

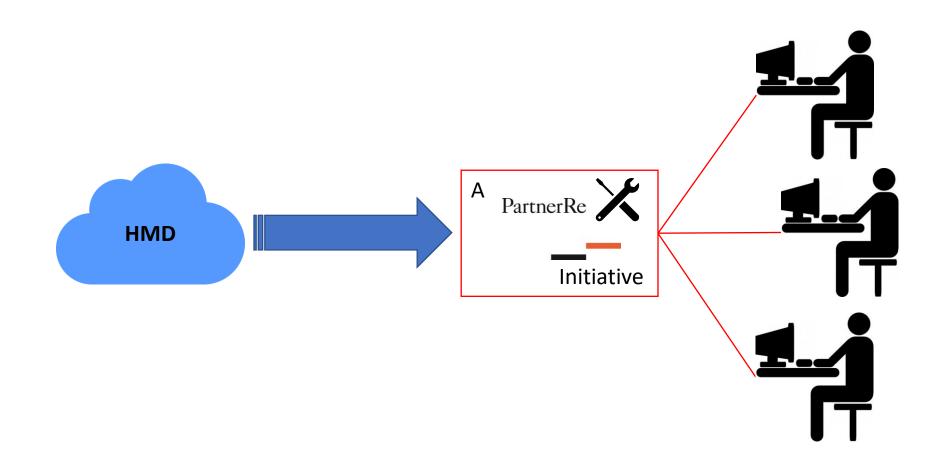




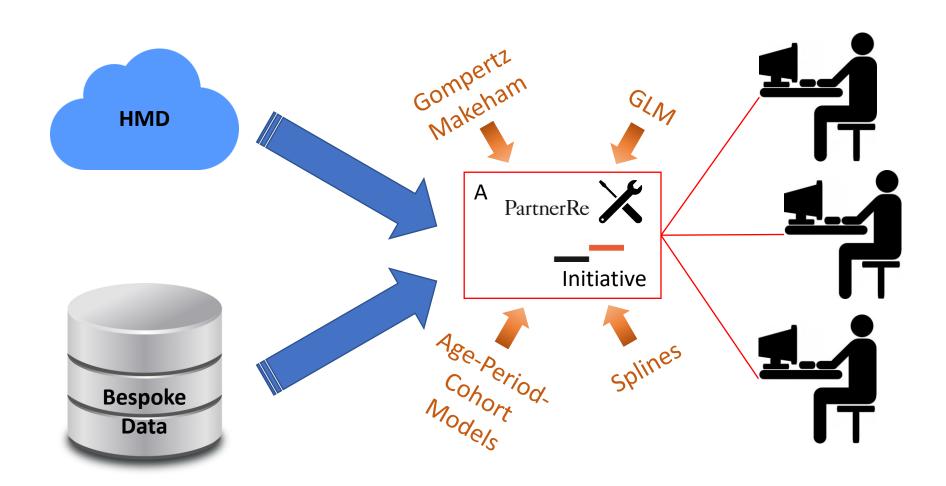






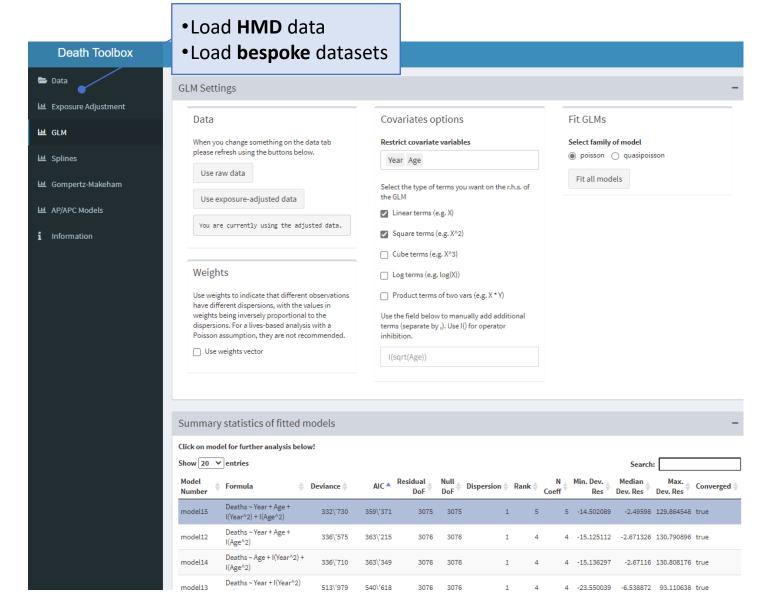






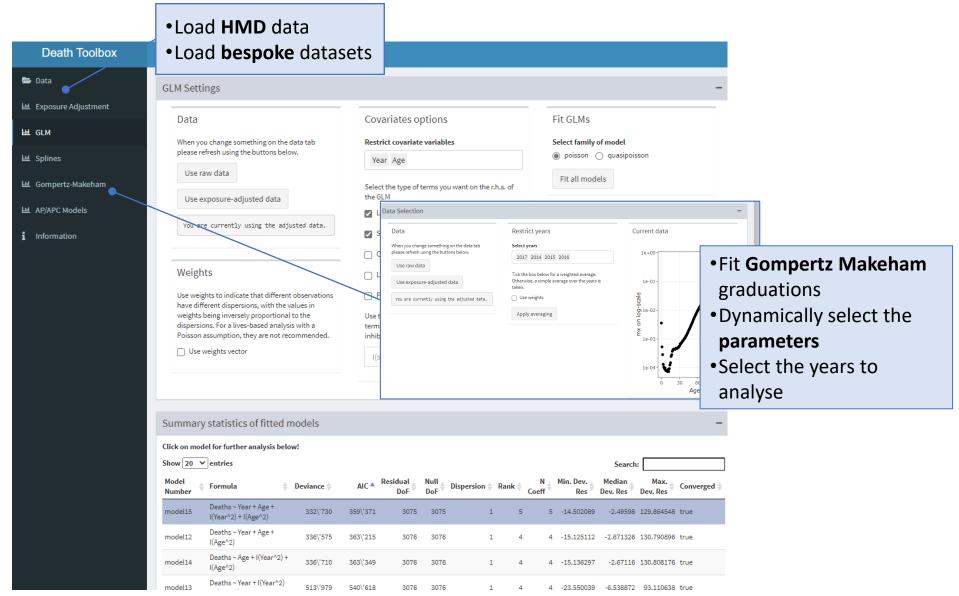


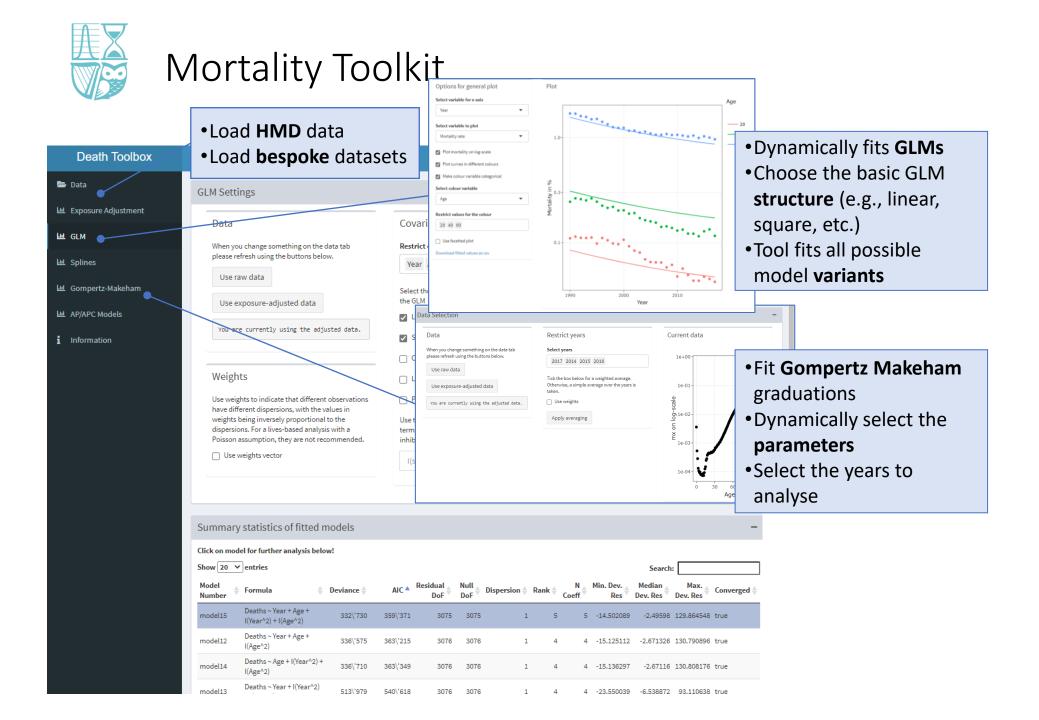
Mortality Toolkit

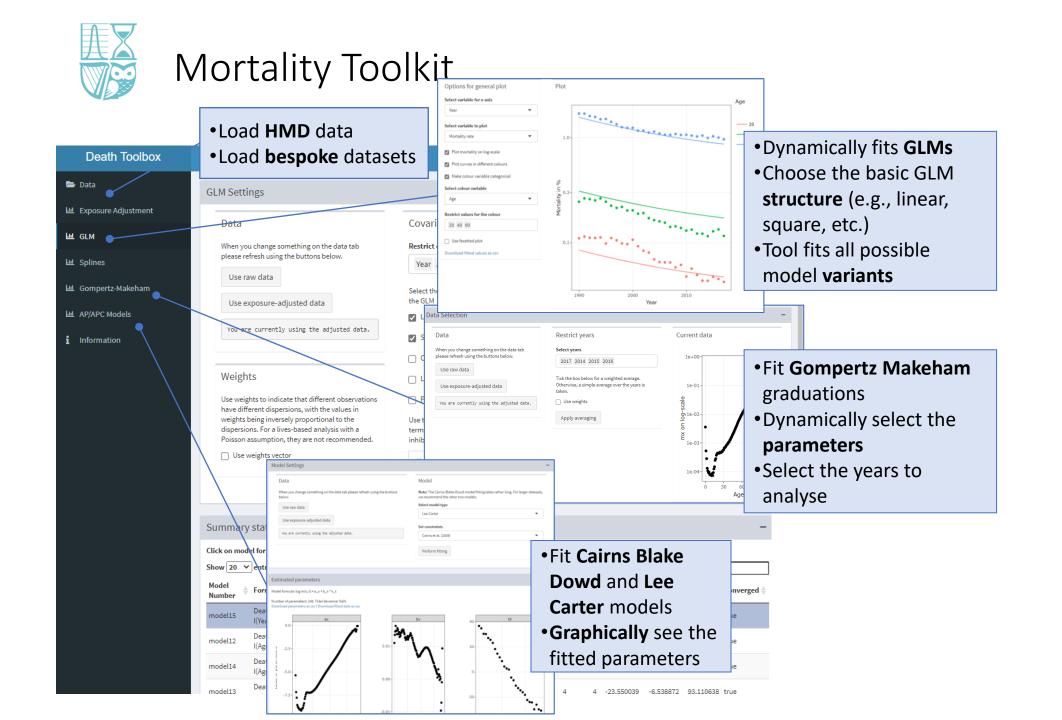




Mortality Toolkit

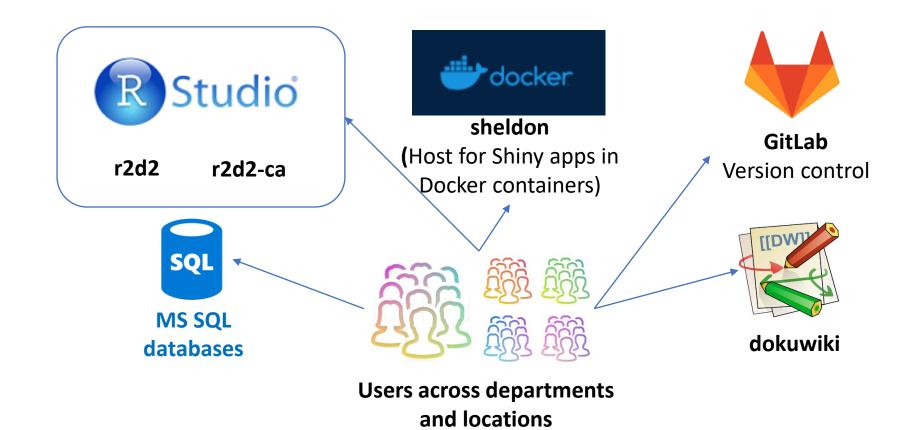








Investment in Infrastructure



Sources:

https://rstudio.com https://www.docker.com https://about.gitlab.com



Choose your Path



Two roads diverged in a wood, and I—
I took the one less traveled by,
And that has made all the difference.
- Robert Frost

Questions

Please click on the 'Raise Hand' icon to ask a question and wait to be unmuted

or

Use the Q&A function

