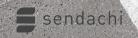


Business Intelligence Refactored with DevOps



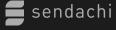
Sam Briesemeister @systemalias

BUSINESS INTELLIGENCE



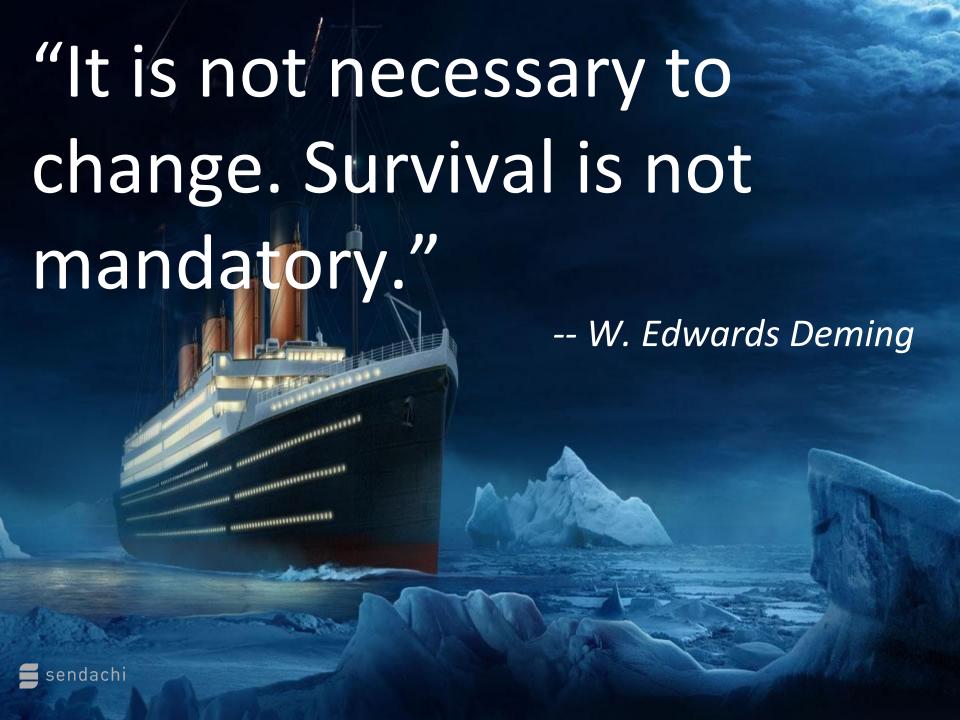
Business Intelligence Failure Modes

- Still collecting requirements.
- No one is using the software.
- The data cannot be trusted.
- Vendor's tools are limited.
- Analyzing the wrong problems.

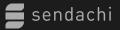


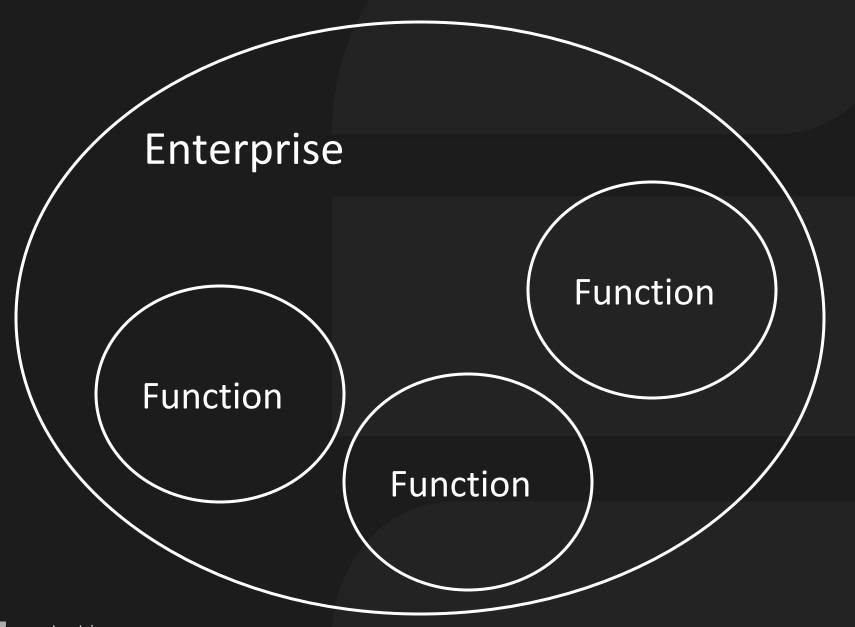
BUSINESS EVOLUTION

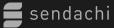


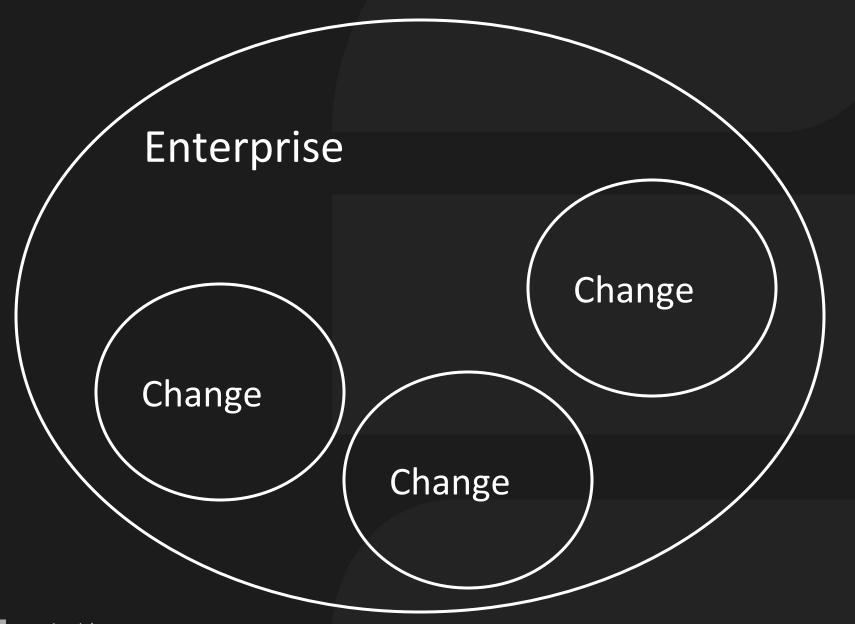


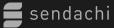
CHANGE RISK SLOW











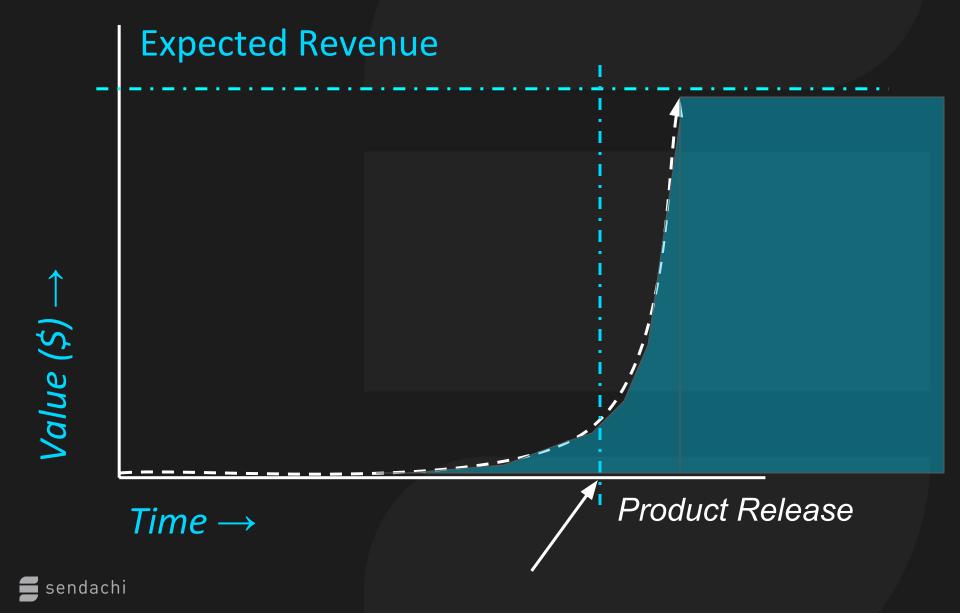


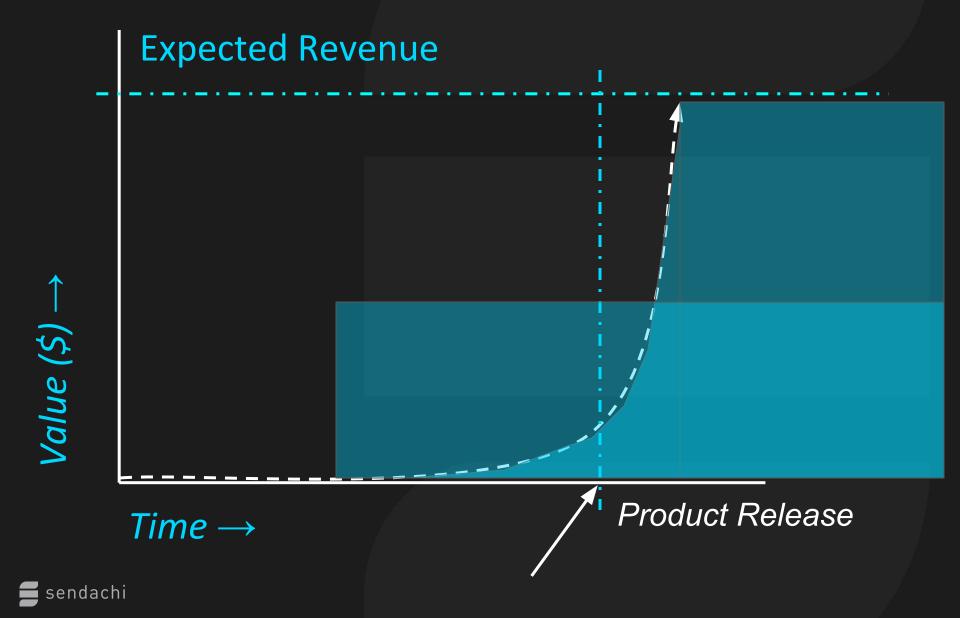
EMBRACE CHANGE

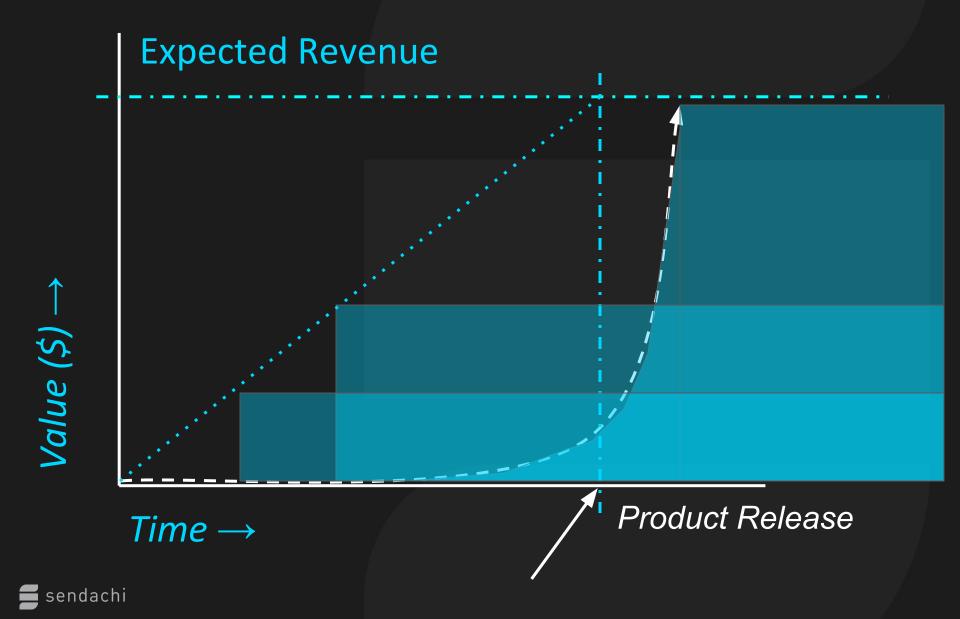


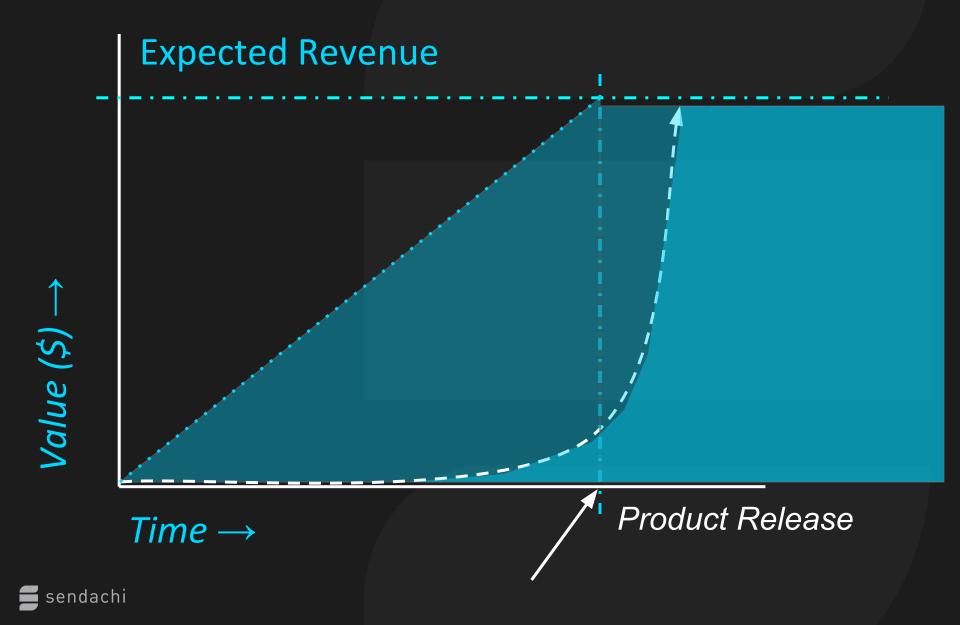
TIME VALUE OF MONEY









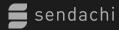


$$ROI_{iter} = \frac{R - C}{C} \cdot \frac{(n \cdot (n + 1))}{2}$$

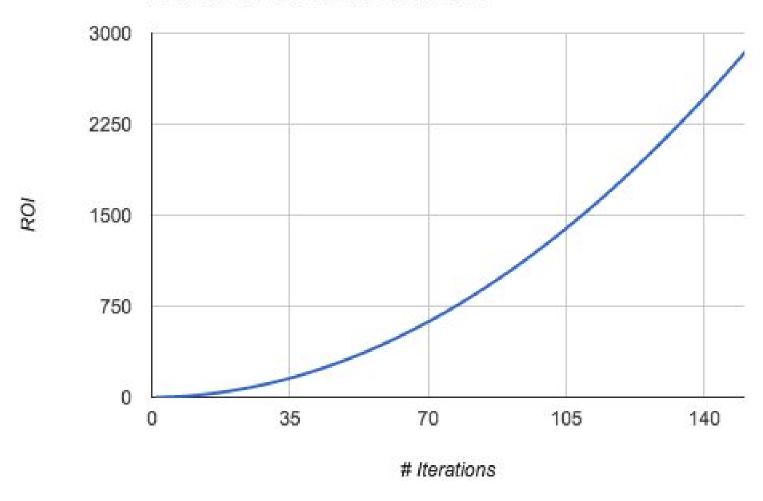
n: count of iterations, frequency

R: revenue, net cash flow

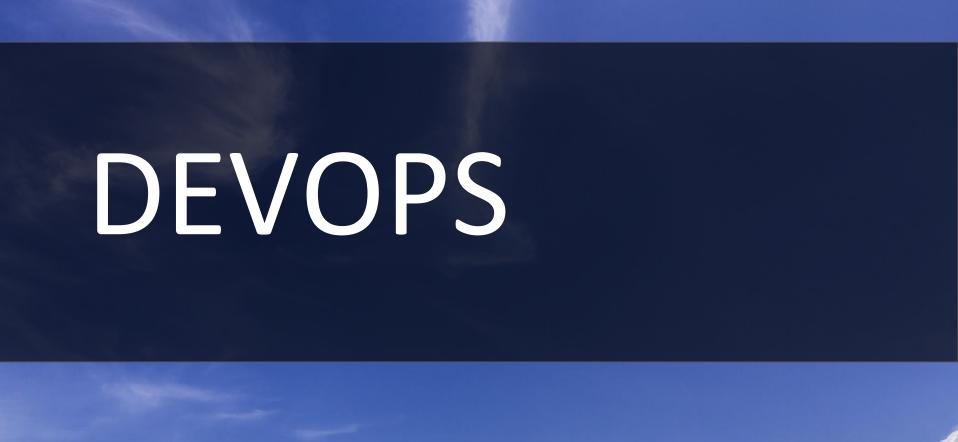
C: cost to develop & deliver



ROI of Iterative Develoment

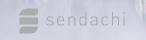






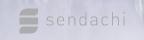


Humans are error-prone





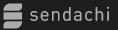
Processes control error



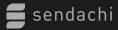


DevOps (n):

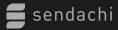
- Kaizen
- Philosophy of ContinuousImprovement



The value of a product is its utility to the customer.

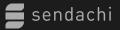


Improving the production flow improves the quality of the product.



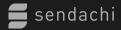
Build integrity in:

 All internal processes must be oriented to their impact on the customer (end user).



"A system cannot understand itself. The transformation requires a view from outside."

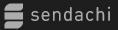
-- W. Edwards Deming





DevOps (v):

- Culture
- Automate
- Improve Process
- Measure & Learn
- Share Findings

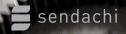




- Small autonomous teams
- No silos, streamlined collaboration
- Open communication
- Experimentation is essential
- Reward learning, control risk
- Think like a startup

AUTOMATE

- Software testing, integration & rollout (deployment)
- Infrastructure as code
- Discover & integrate data sources
- Built-in Governance in data pipeline
- Analysis: Machine Learning



LEAN PROCESS

- Efficiency through self-service
- Easily add new reports & data sources through configuration
- Focus development work on immediate value
- Control queues and in-flow



MEASURE

- Data is everywhere
- Core requirement of projects
- Study the workflow
- Promote user-contributed data sets
- Rough data is good!!!

SHARING

- Frequent, systematic analysis
- Open communication of
 - Experiments
 - Findings & Discoveries
 - Failures & Successes
- Teams must share knowledge.



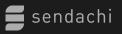
BUSINESS INTELLIGENCE







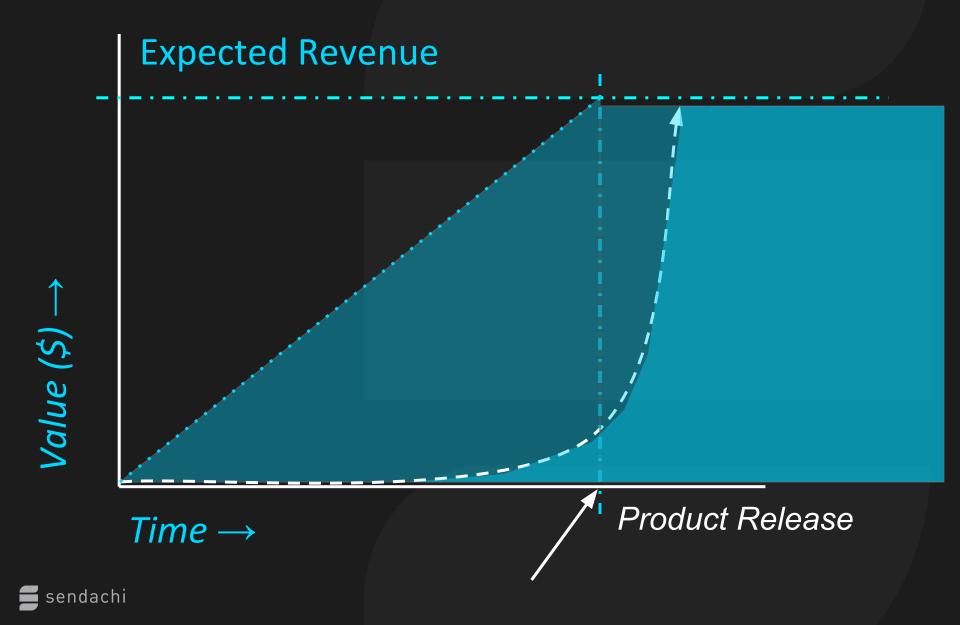
BUSINESS INTELLIGENCE IS A PRODUCT



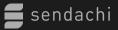
Business Intelligence is a Product

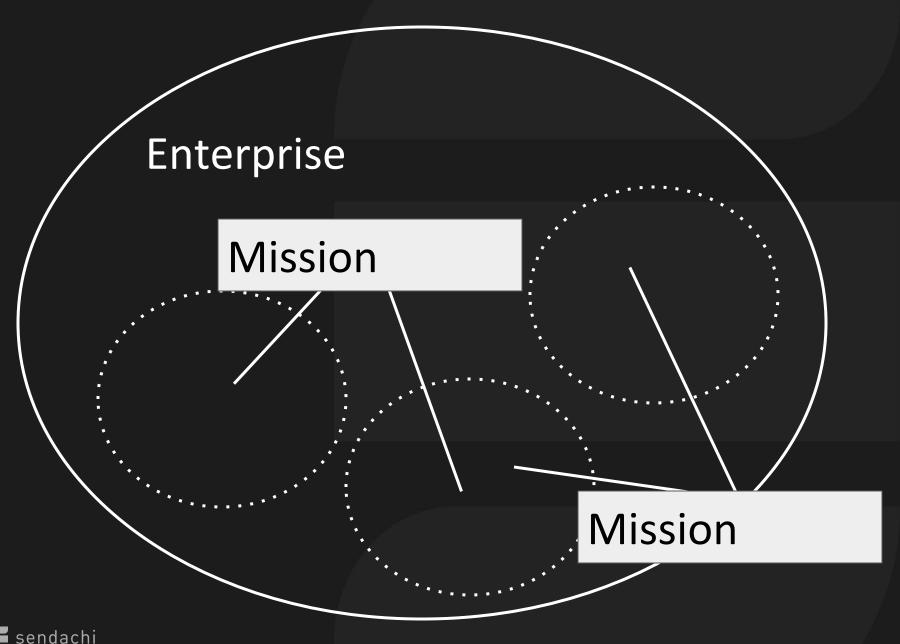
- Value proposition
- Market segments
- Feature blend
- "product-market fit"
- Support & documentation
- Development Lifecycle
- Adoption is essential

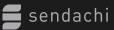


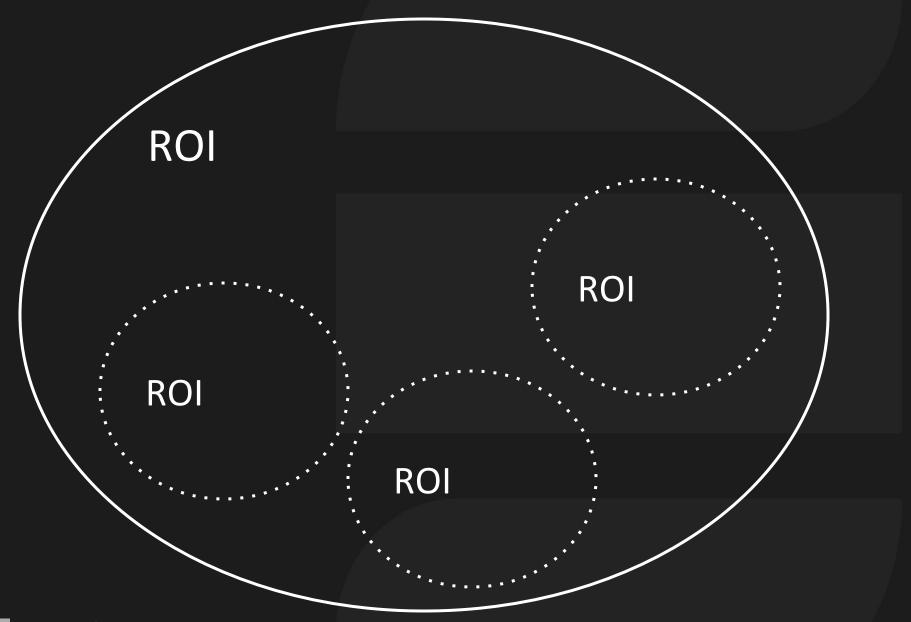


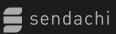
CHANGE IS CULTURE











TIME TO MARKET





Business Intelligence Refactored with DevOps

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