11th Central and Eastern European Software Engineering Conference in Russia - CEE-SECR 2015

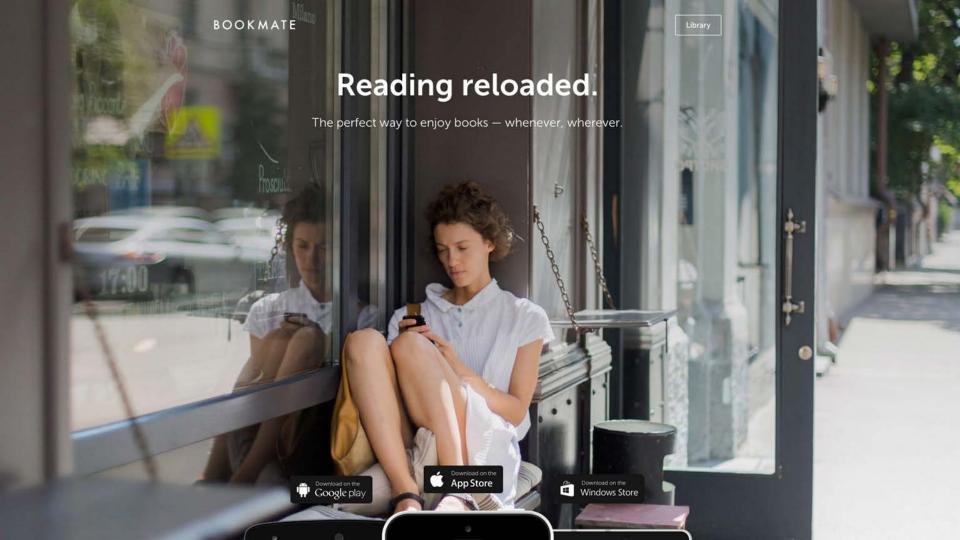
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Measuring the agile process improvement

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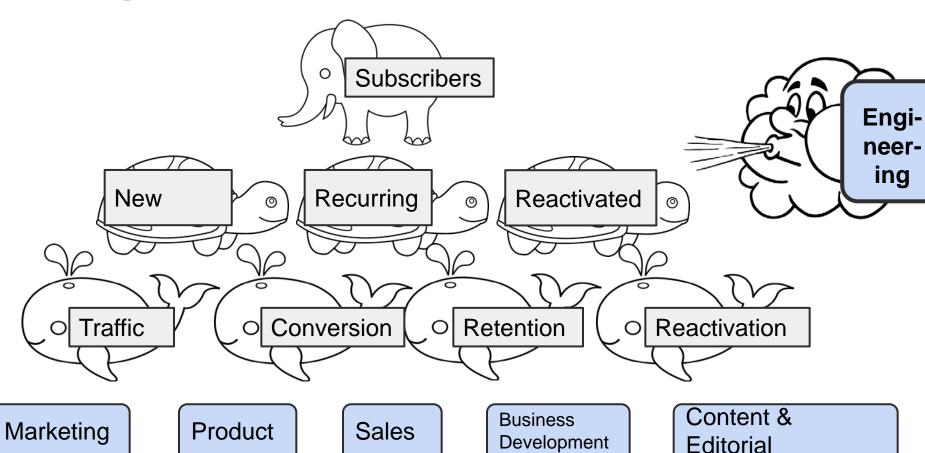
BOOKMATE



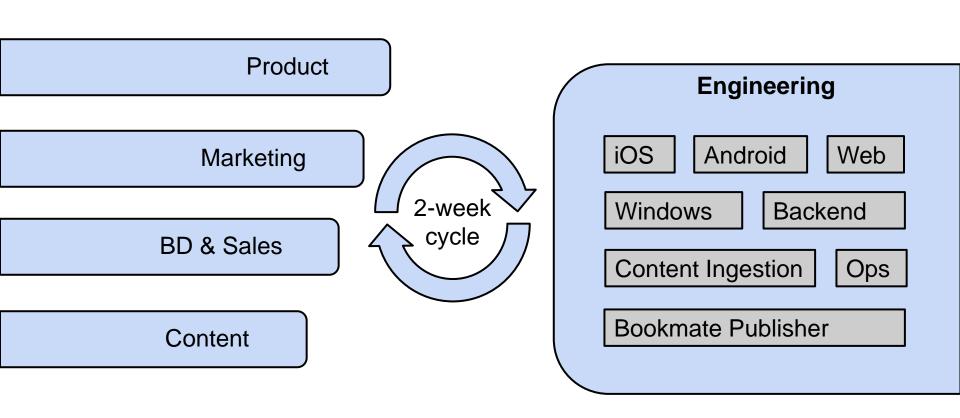
Context

- There's no universal solution, everything matters in its context
- Bookmate is a B2C content service:
 - lots of stakeholders
 - lots of external parties
 - lots of urgent stuff
 - lots of experiments
 - rapid team growth
- A way different from: MVP, B2B, outsourcing

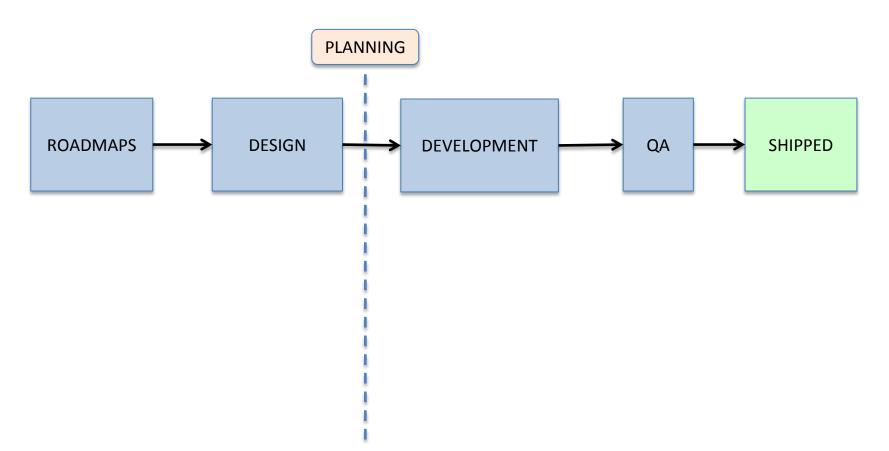
The goals

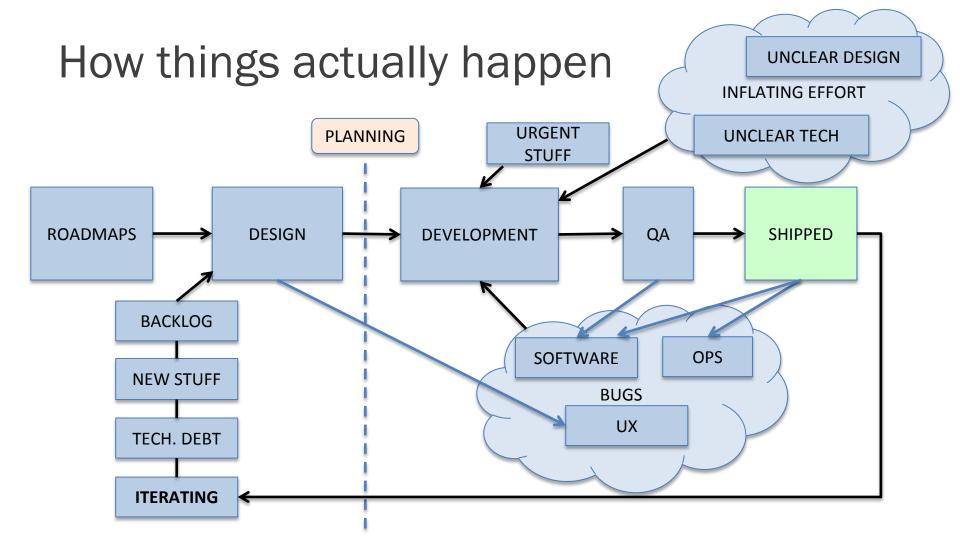


Stakeholders and engineering



How things ideally would happen





Continuous improvement

- Overall productivity KPI is clear: shipped/committed ratio
- Without actionable metrics, improvement involves too much emotion and causal attribution
- The metrics should be:
 - end-to-end (any change in KPI reflected by metrics)
 - invariant to story size and story point value
 - allow for measuring external factors (stakeholders)

What's out there?

- stories committed / stories completed
- technical debt management
- team velocity
- story cycle time
- CAT/QA cycle time
- estimation accuracy
- defects per release cycle
- defects per story point
- test cases run

DEPEND ON STORY SIZE
DEPEND ON STORY POINT
A LOT OF GAPS

What do we use

Estimated effort on planned and done

All available effort

PRODUCTIVITY



Estimated effort on planned and done

Actual effort on planned and done ACCURACY

Actual effort on
planned and done

Effort spent on
planned
SHIPABILITY

Effort spent on planned

Actually spent effort

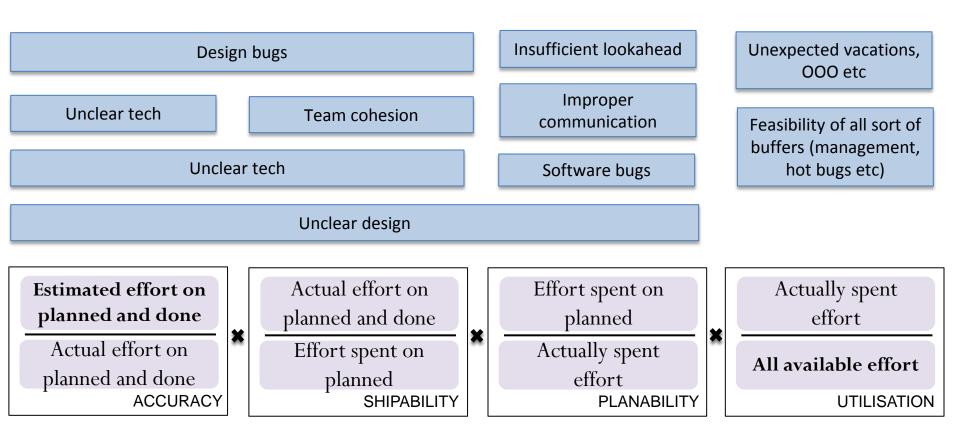
PLANABILITY

Actually spent effort

All available effort

UTILISATION

Issues we discover



What's good about that

- Almost free (given you estimate effort)
- Don't depend on story size (measure effort, not stories)
- Don't depend on the story point size (it cancels out)
- Any issue from the messy picture above is reflected by those metrics
- Easily projected back to stakeholders to find external bottlenecks, e.g.



Next batch

Track stuff that is easily swept under the rugs:

Estimated effort on all bugs

All available effort

QUALITY

Estimated effort on tech. backlog

All available effort

TECH DEBT

Be sane about that

- It doesn't remove bottlenecks and issues
- It just shows them
- Sometimes it's enough to solve the issue
- Most of the times it isn't

