moveIT

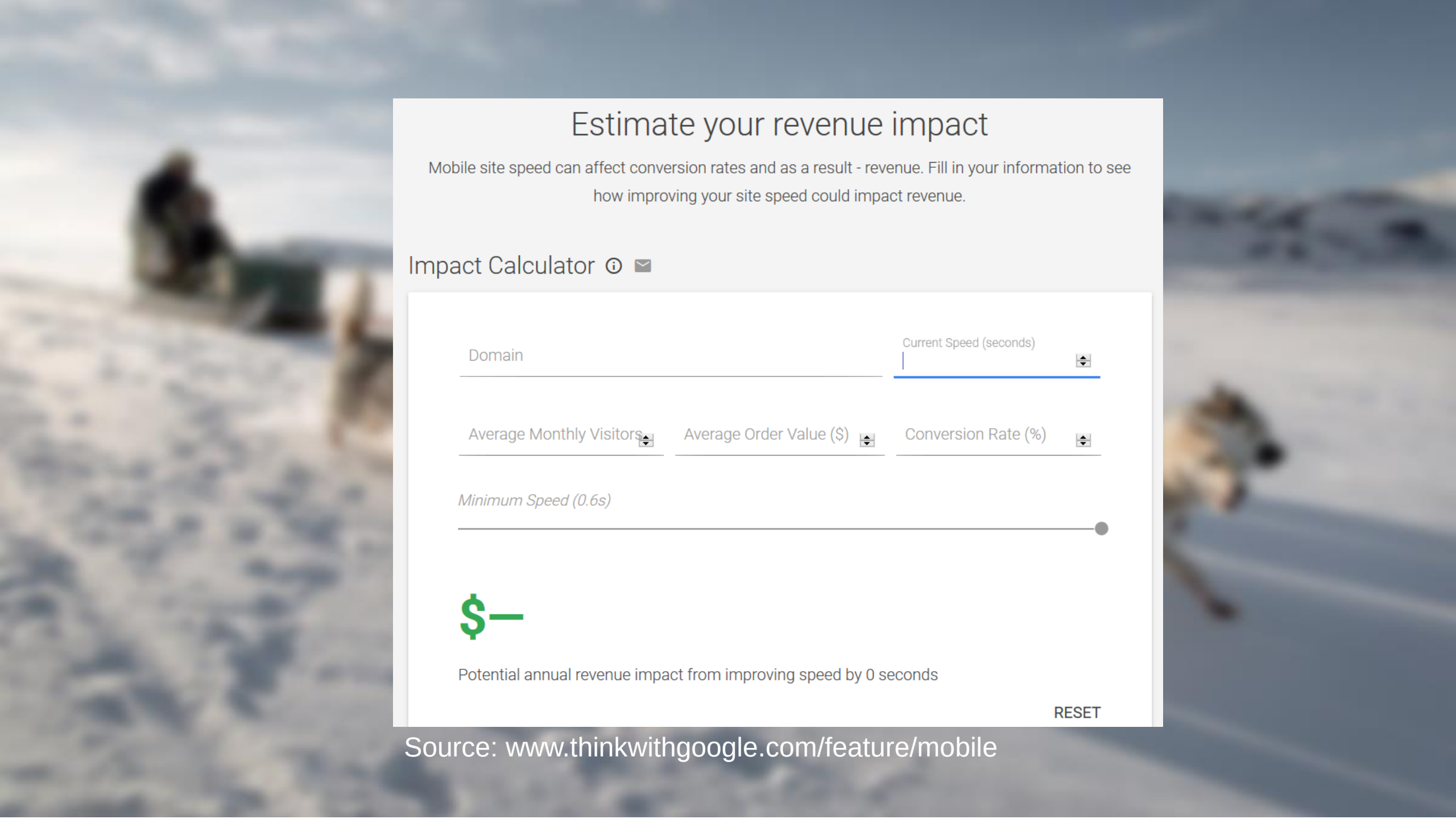
Performance testing in an agile context, what is below the iceberg?

6 DECEMBER, 2018 I Wim Demey

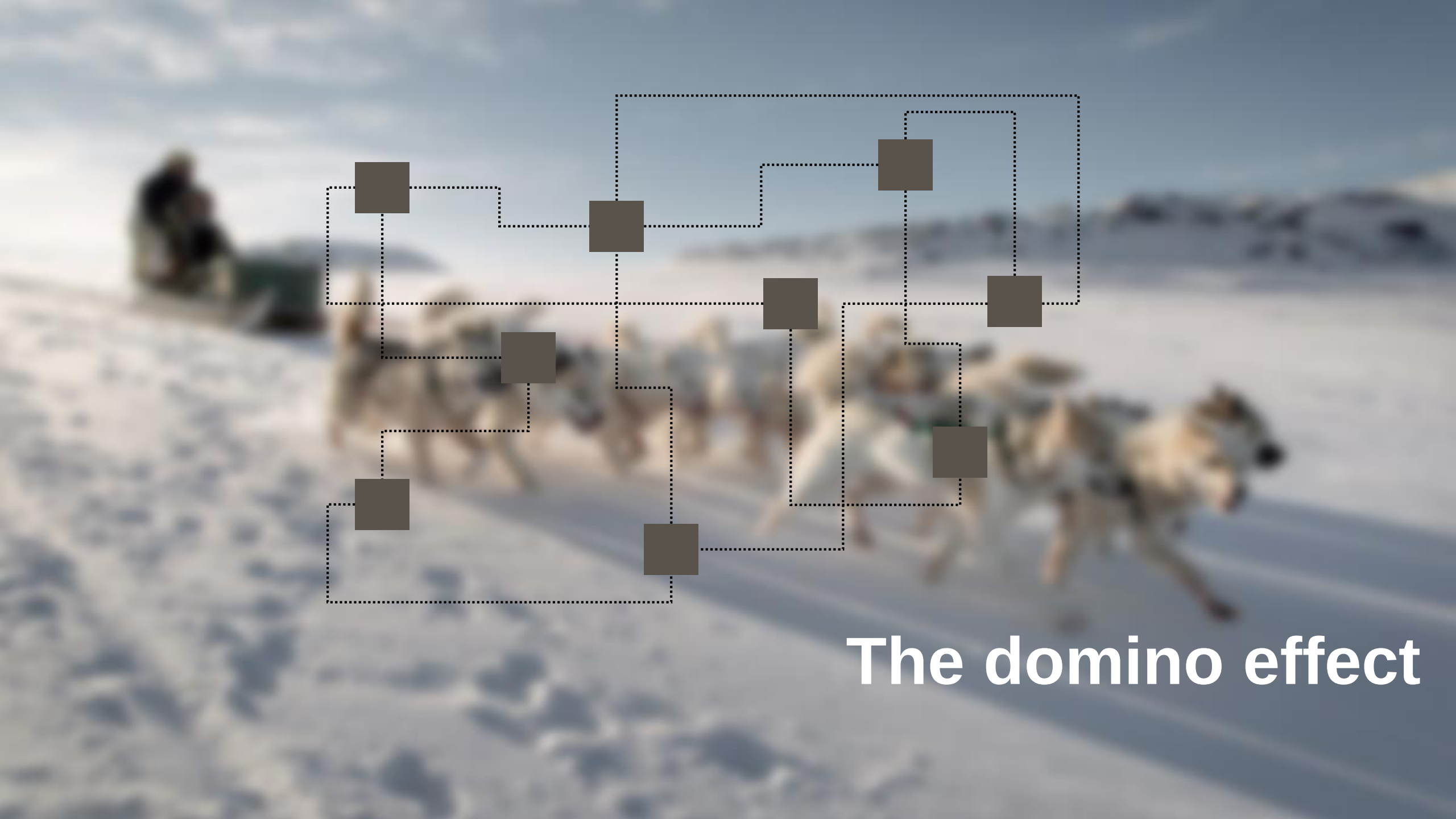
T.B.D.
U.C.
S.O.D.

Performance matters

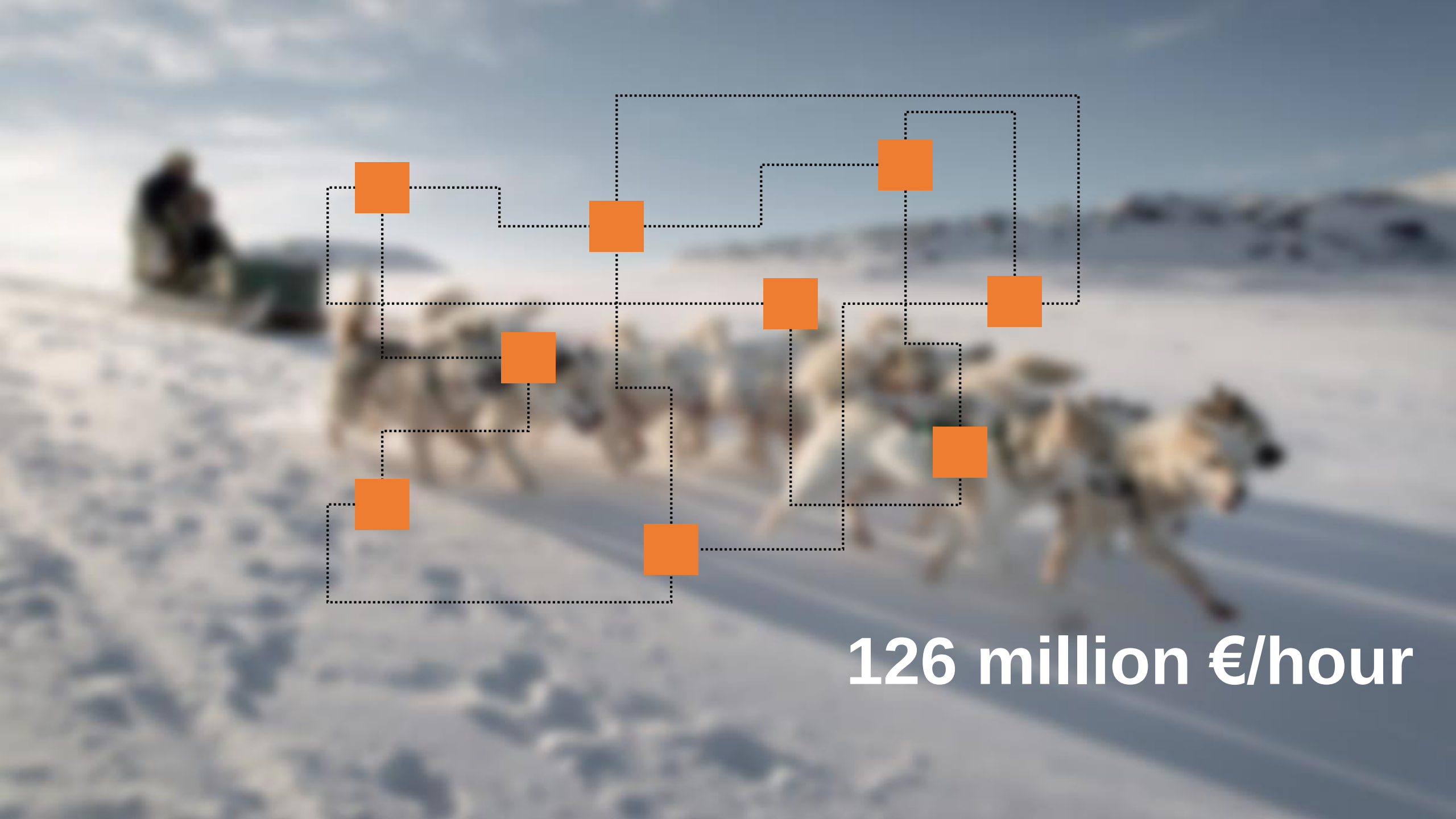
1. Brand reputation
2. Revenue
3. Customers
4. Competition



Source: www.thinkwithgoogle.com/feature/mobile



The domino effect


126 million €/hour

Revell Model Kit – R.M.S. Titanic

2.8 million boxes

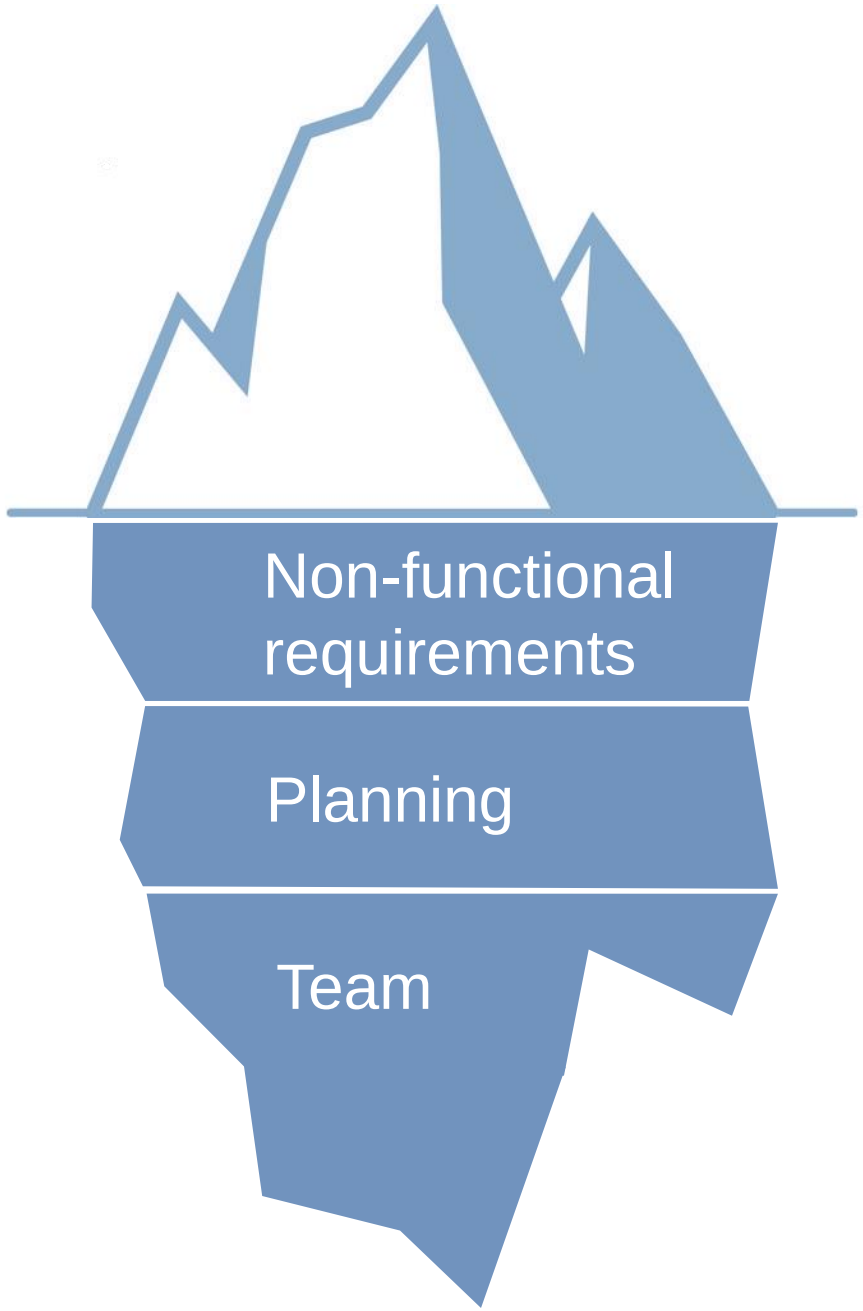
By 2021, organizations that have embraced

a **performance engineering** approach for application development

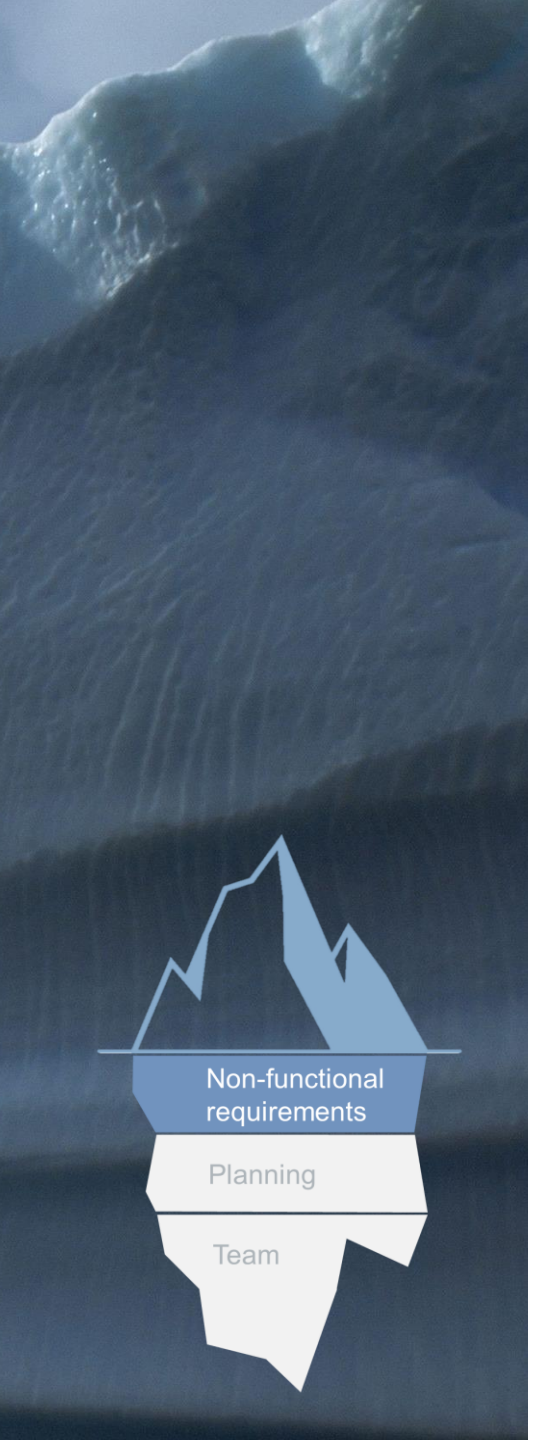
will **outperform the competition** that has not,

in both customer satisfaction and business results

Source: Gartner - Adopt a Performance Engineering Approach for DevOps (published: 18 June 2018)



What is below the iceberg?



The application should be fast

The application should be able to process 100 pages per second for 5.000 concurrent users submitting 20 orders per second with page-level response times of:

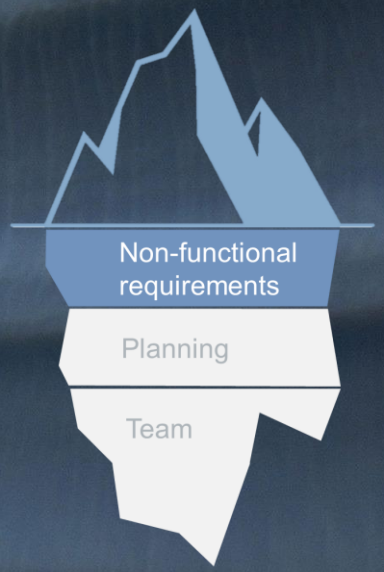
>> Less than 0.5 seconds for simple pages

>> Less than 1 second for medium-complexity pages

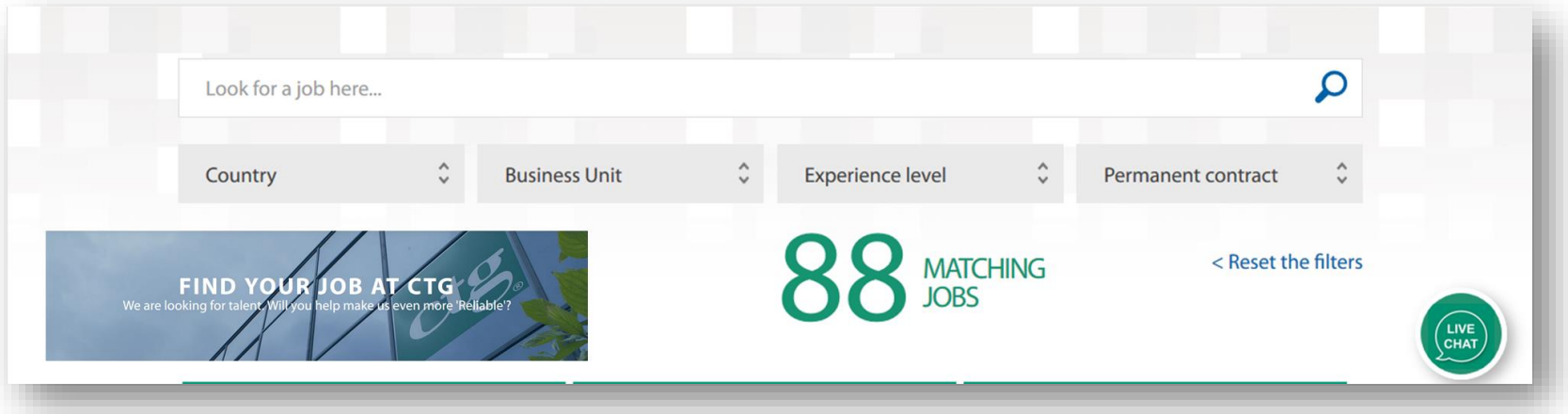
>> Less than 5 seconds for very complex pages

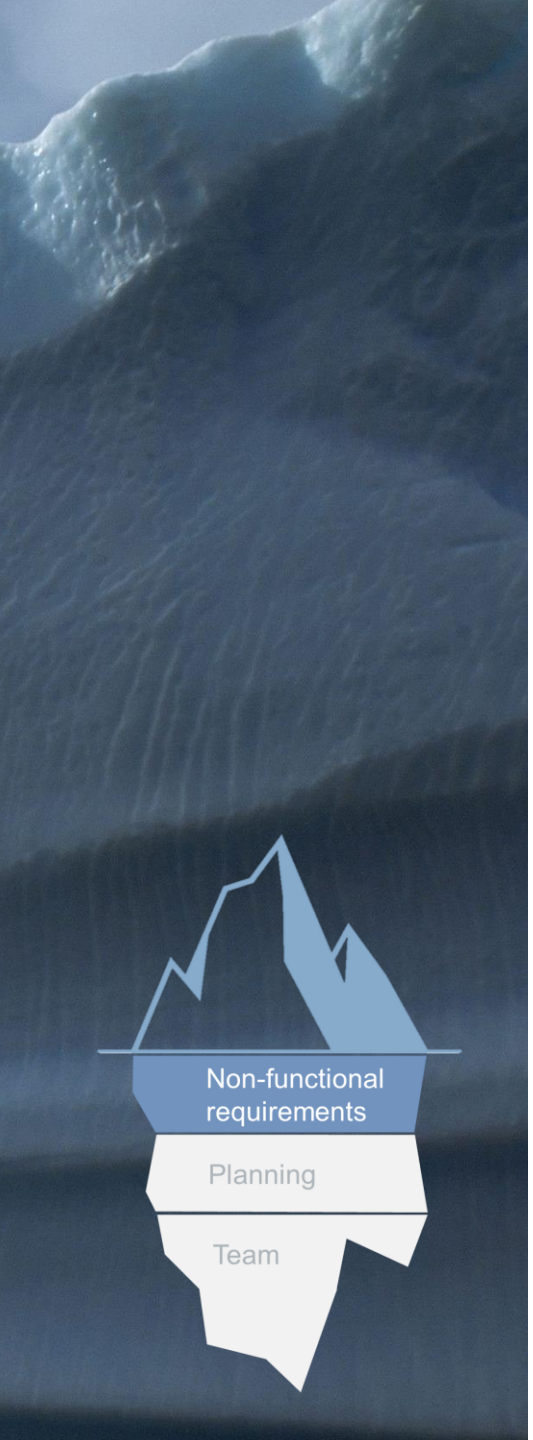
>> Less than 0.5% error rate

input throughput server capacity response time fault tolerance



As a user, I want to search a job using key words and filters so that I can find the suitable job



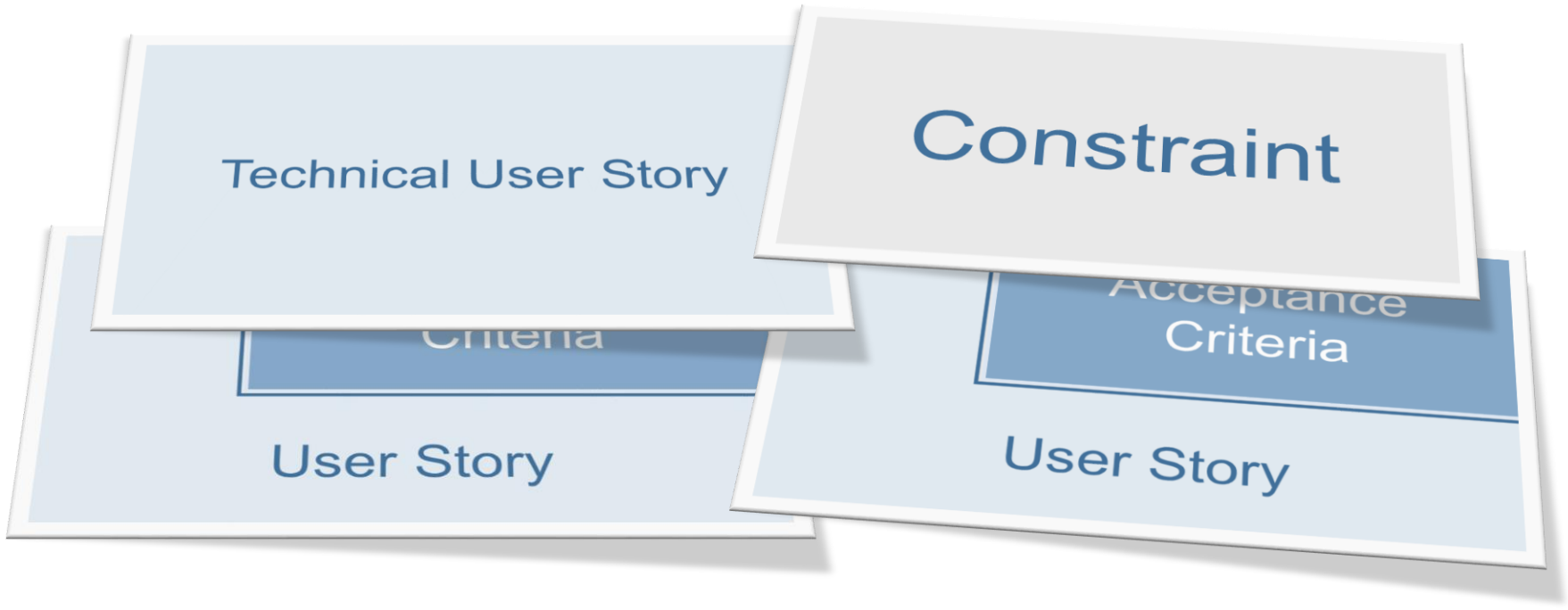


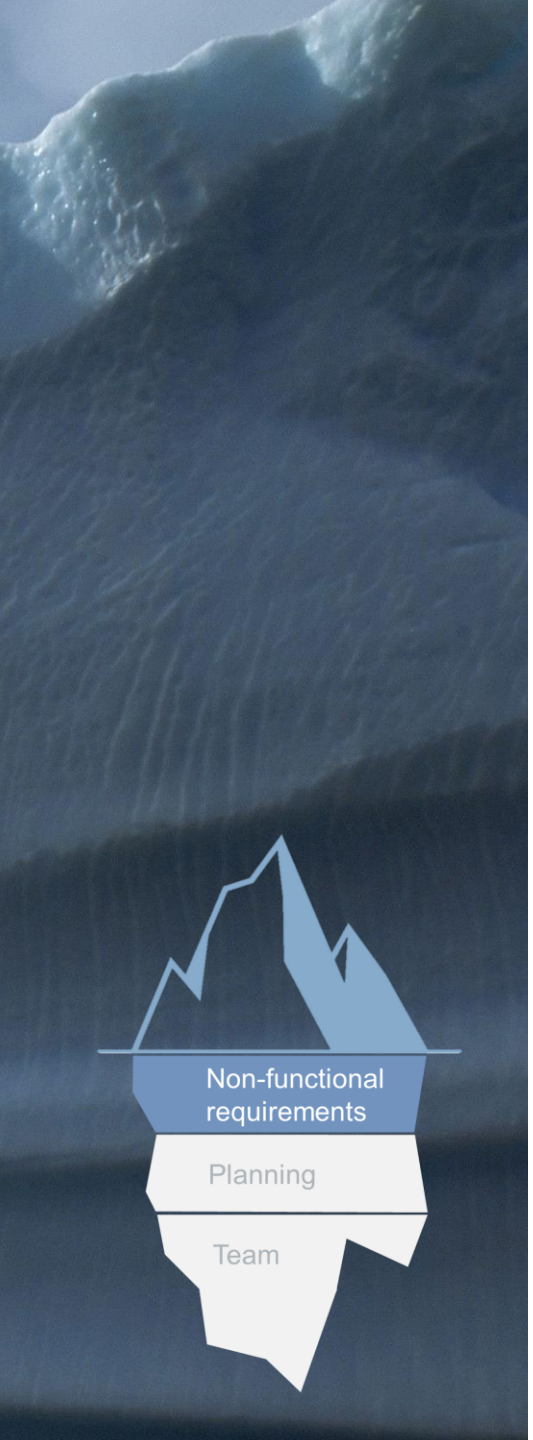
As a user, I want to search a job using key words and filters so that I can find the suitable job

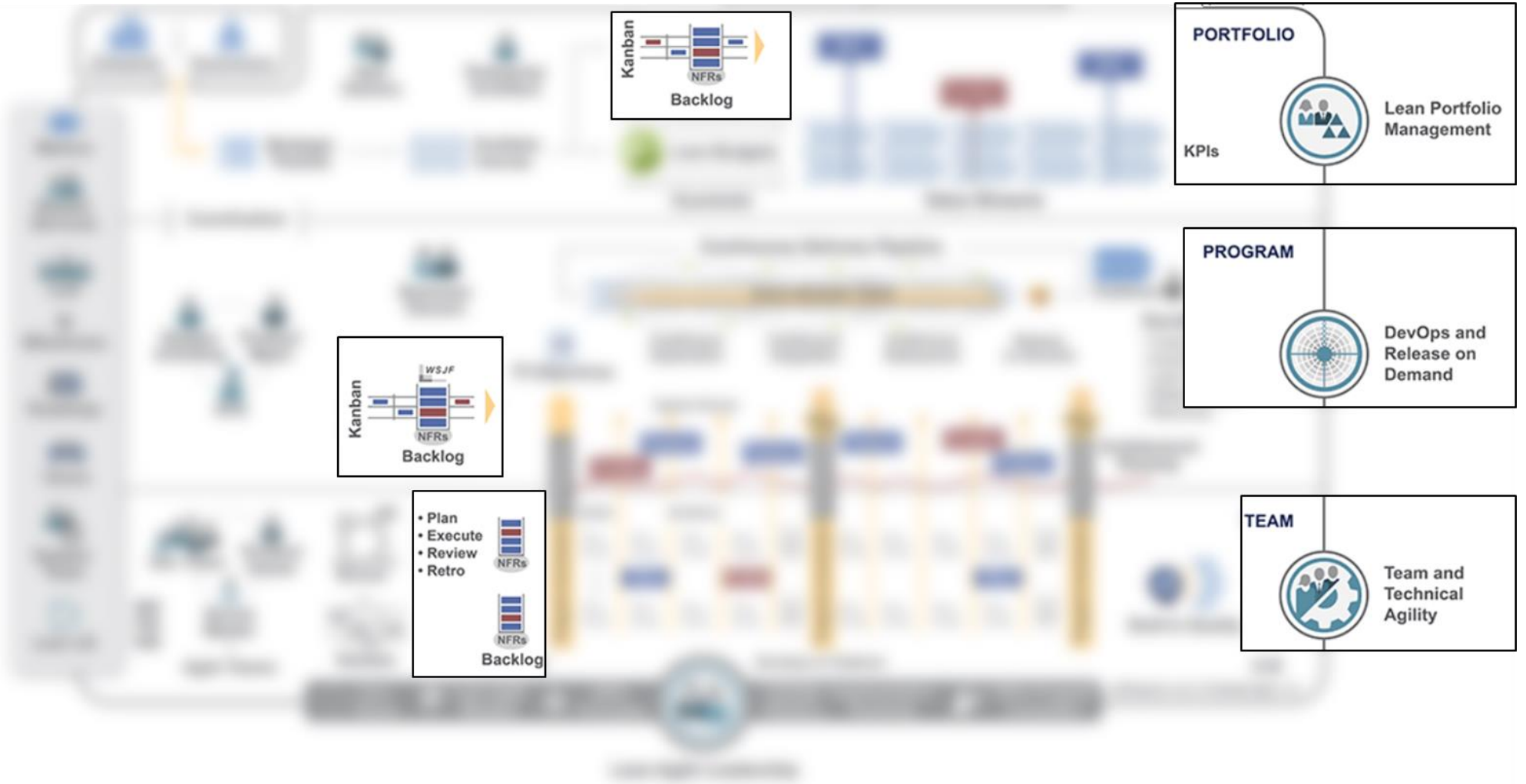
Result with max. 10 results/page is displayed with a 90% percentile response time of max. 2 seconds when
- max. 2 filters are applied
- between 2 and 200 users are concurrently searching

In all other cases, a response time of max. 5 seconds is expected

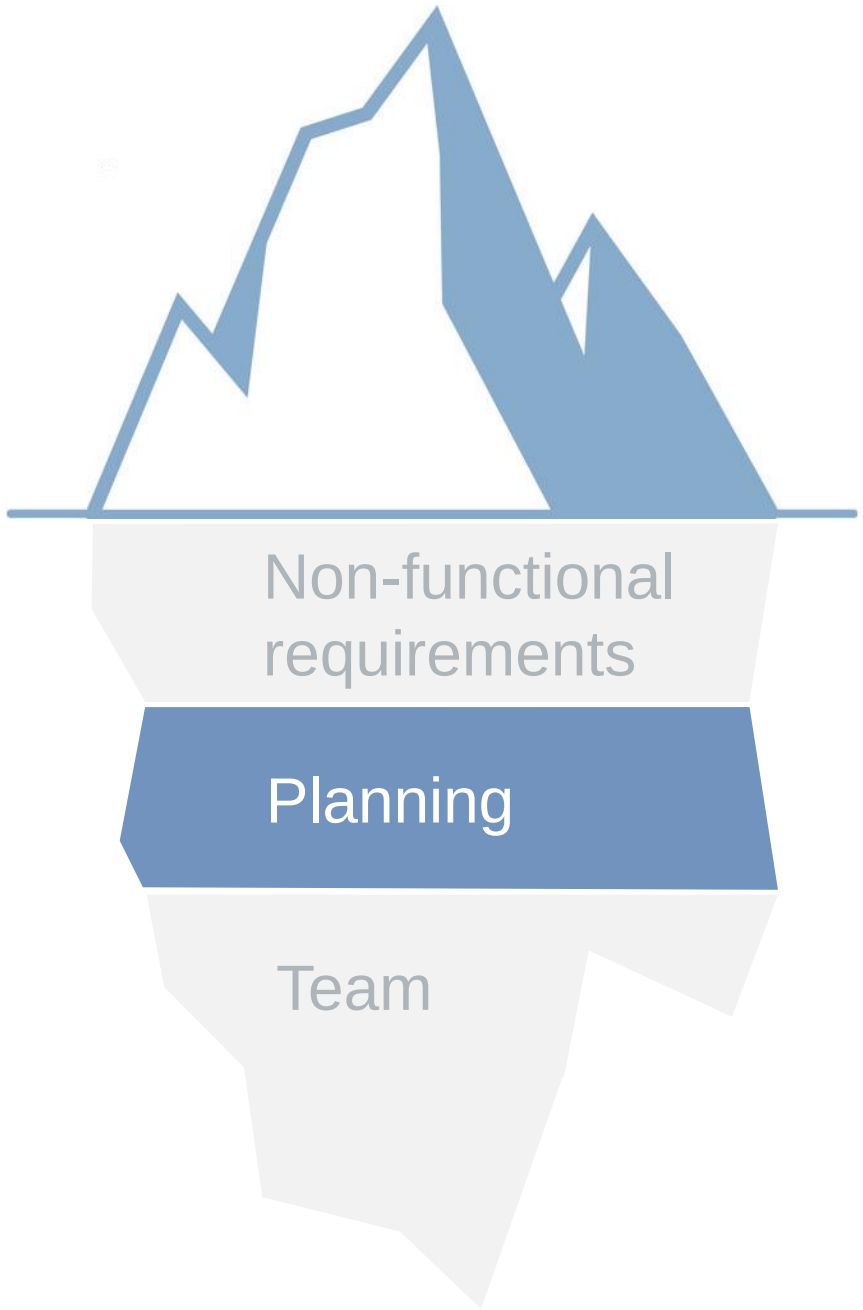
Definition Of Done



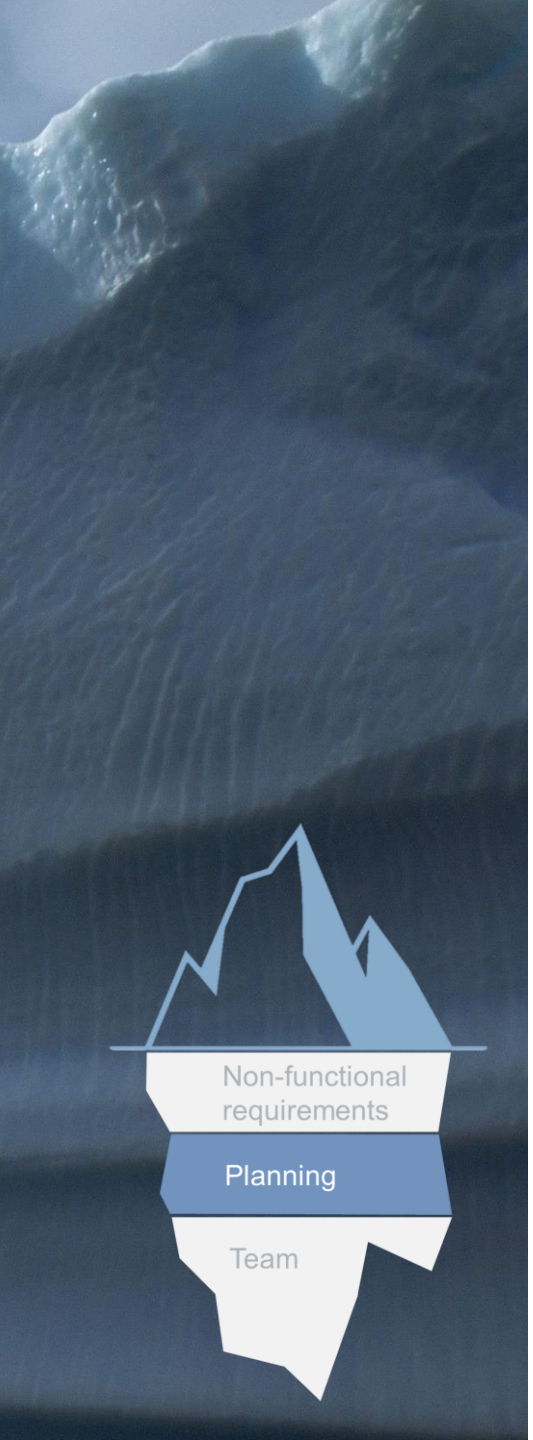


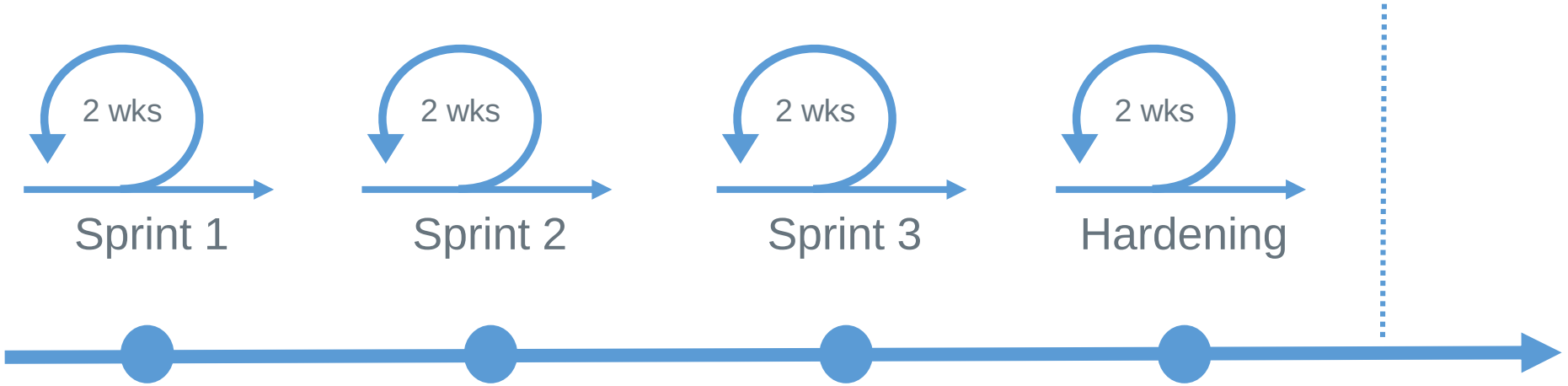


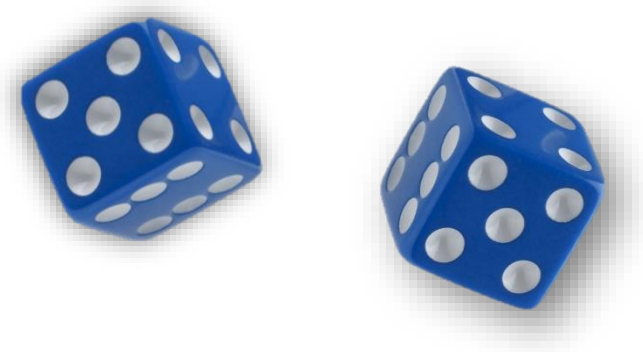
Non-functional requirements in SAFe (portfolio configuration)



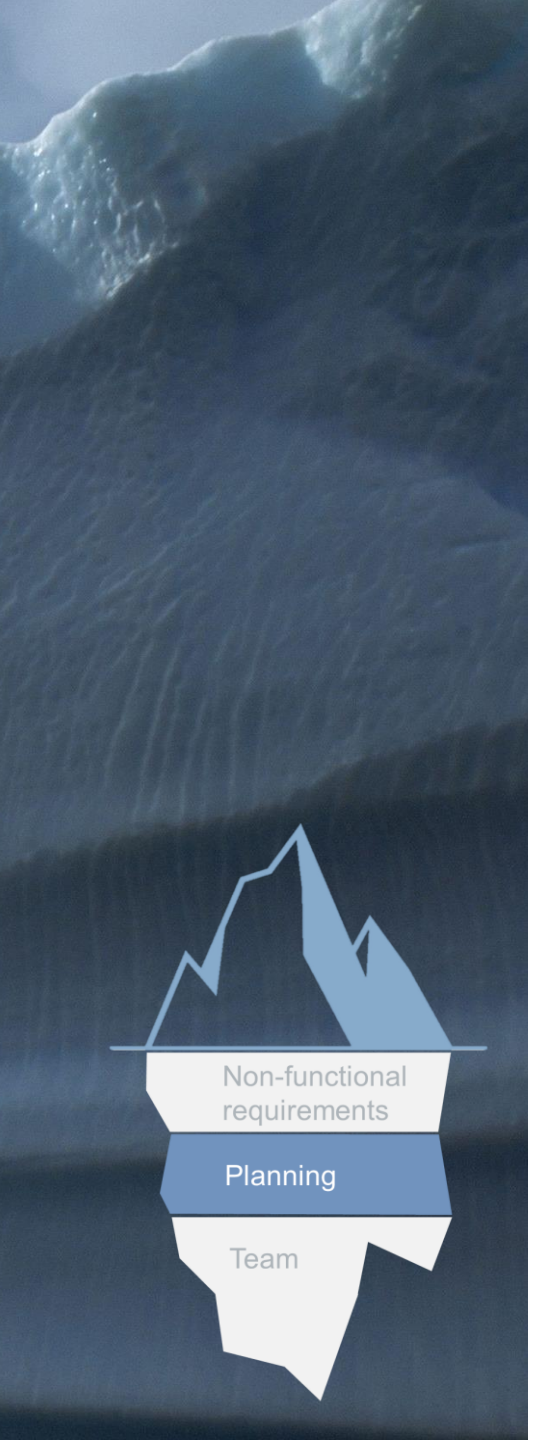
What is below the iceberg?

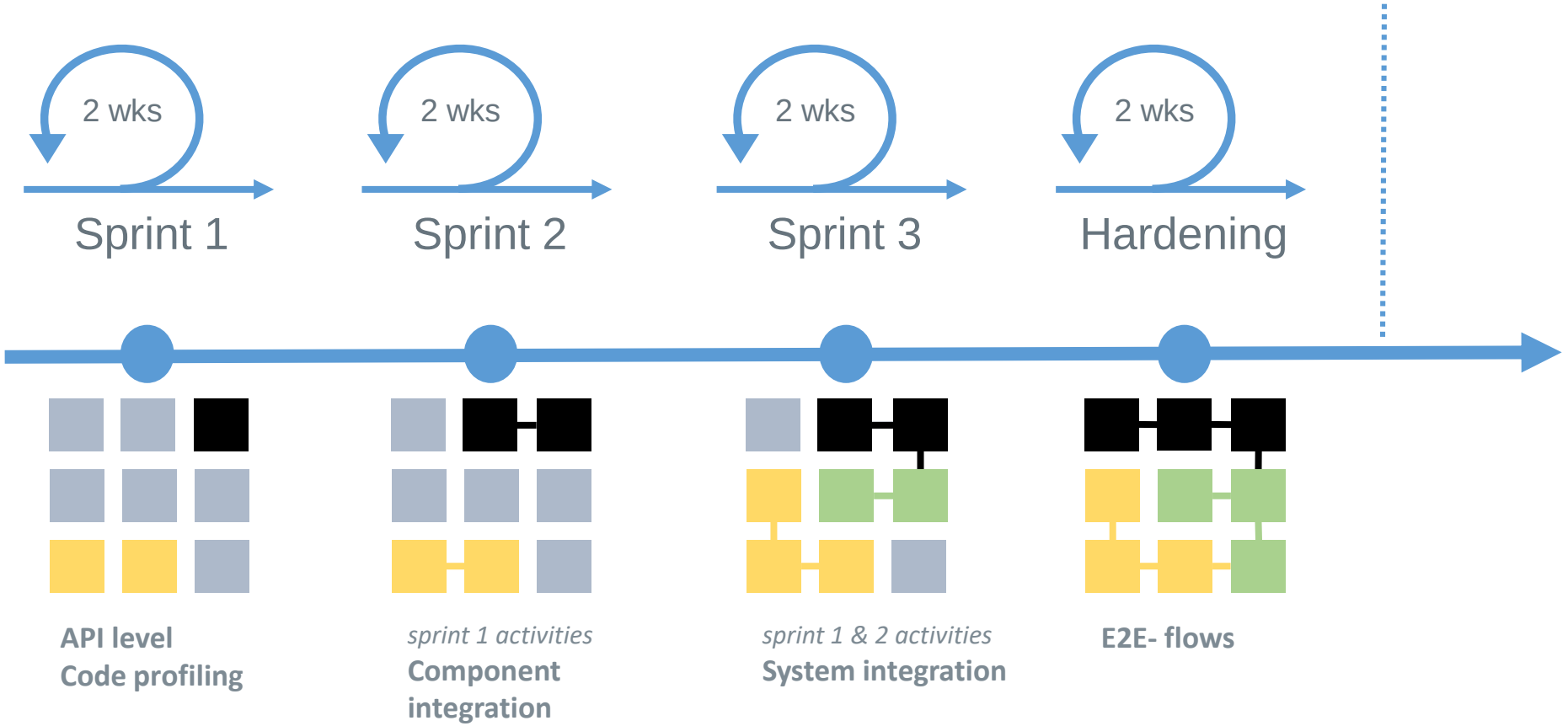




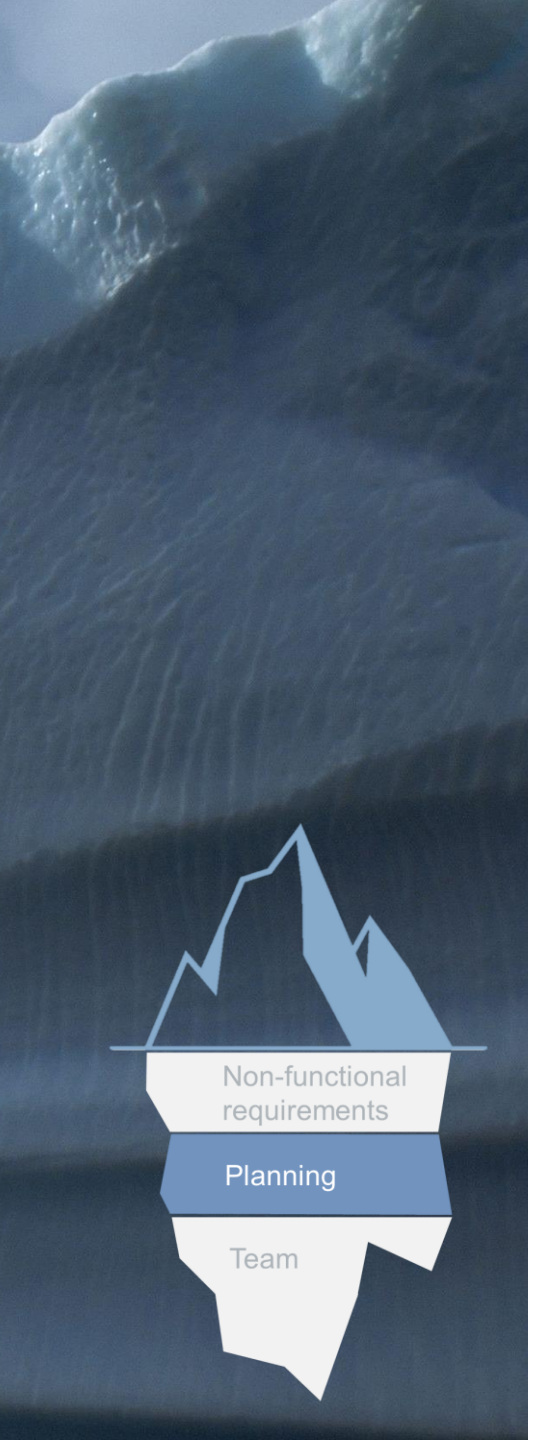


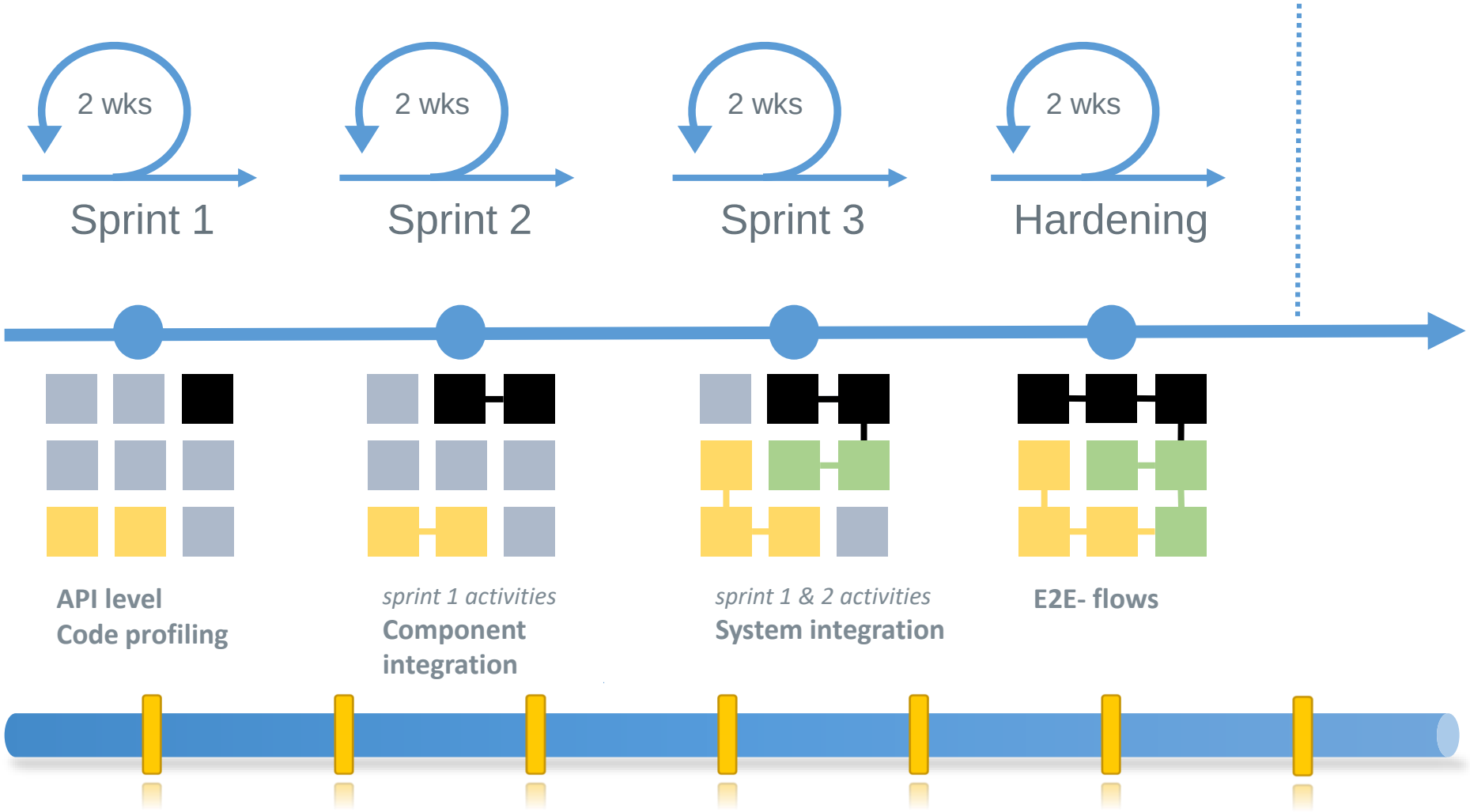
Roll the dice or think wise . . .



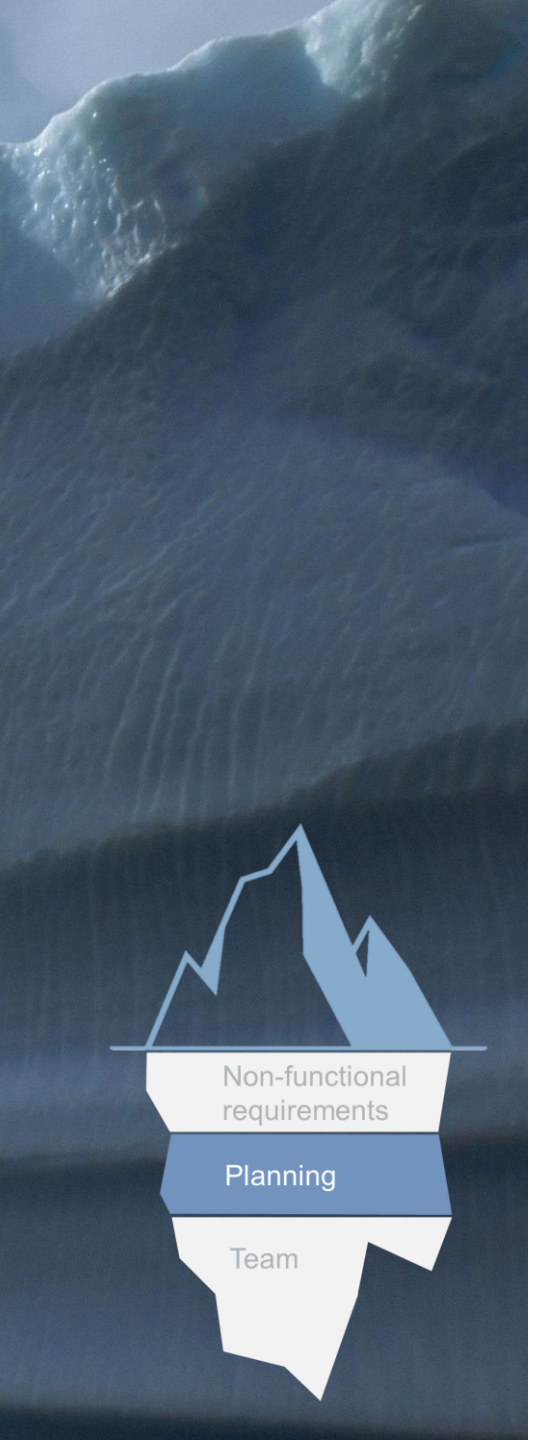


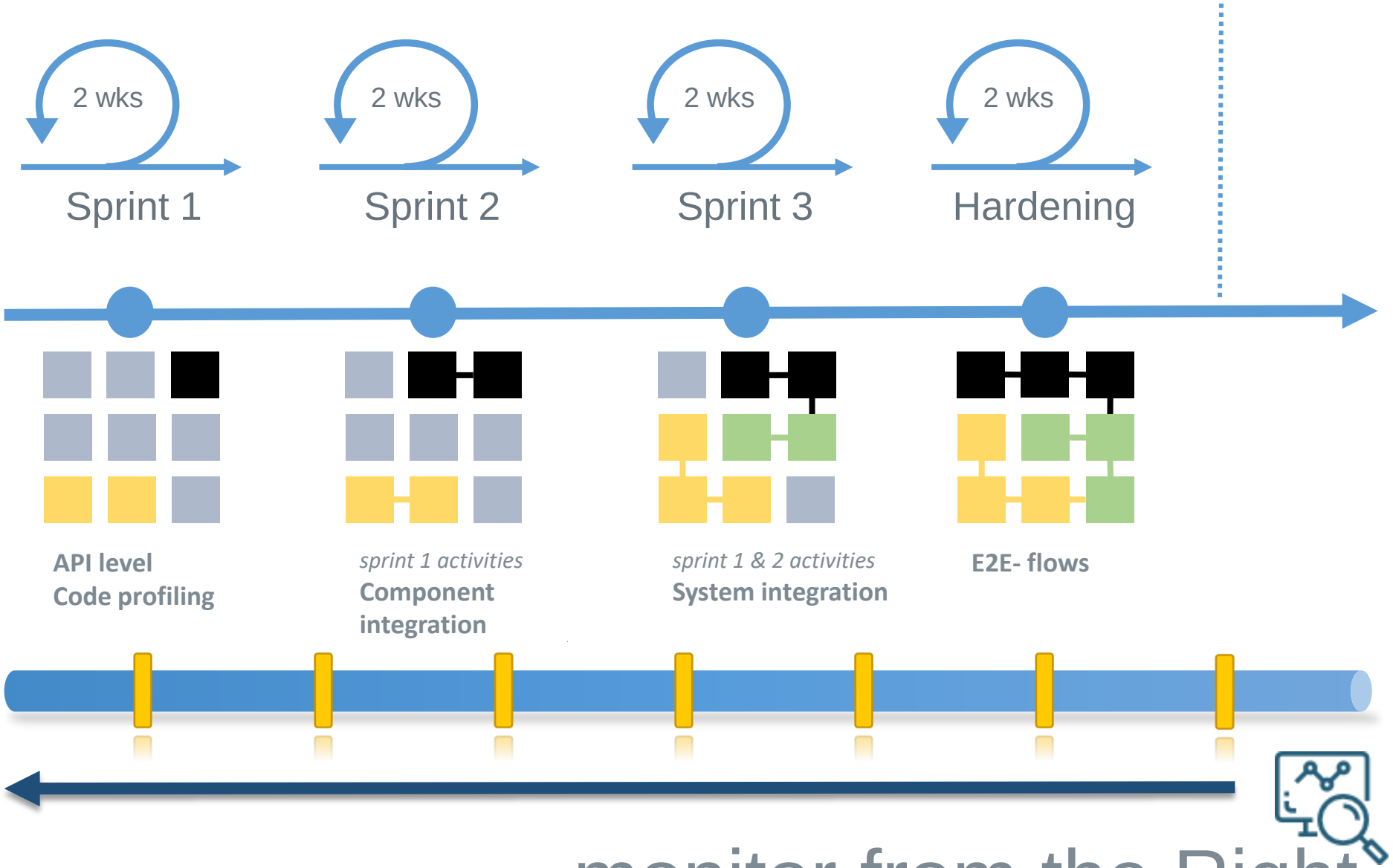
. . . start small from the Left



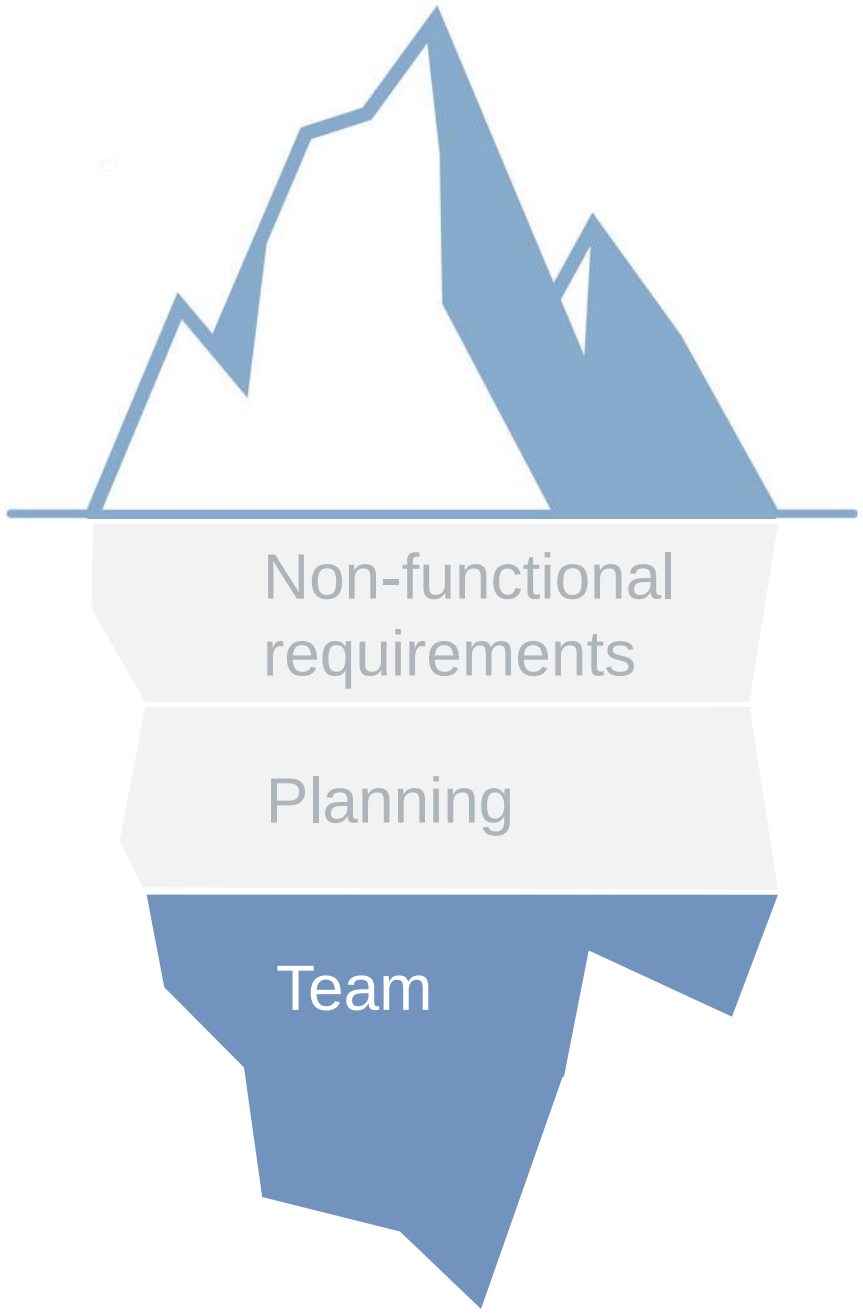


. . . automate where relevant





. . . monitor from the Right



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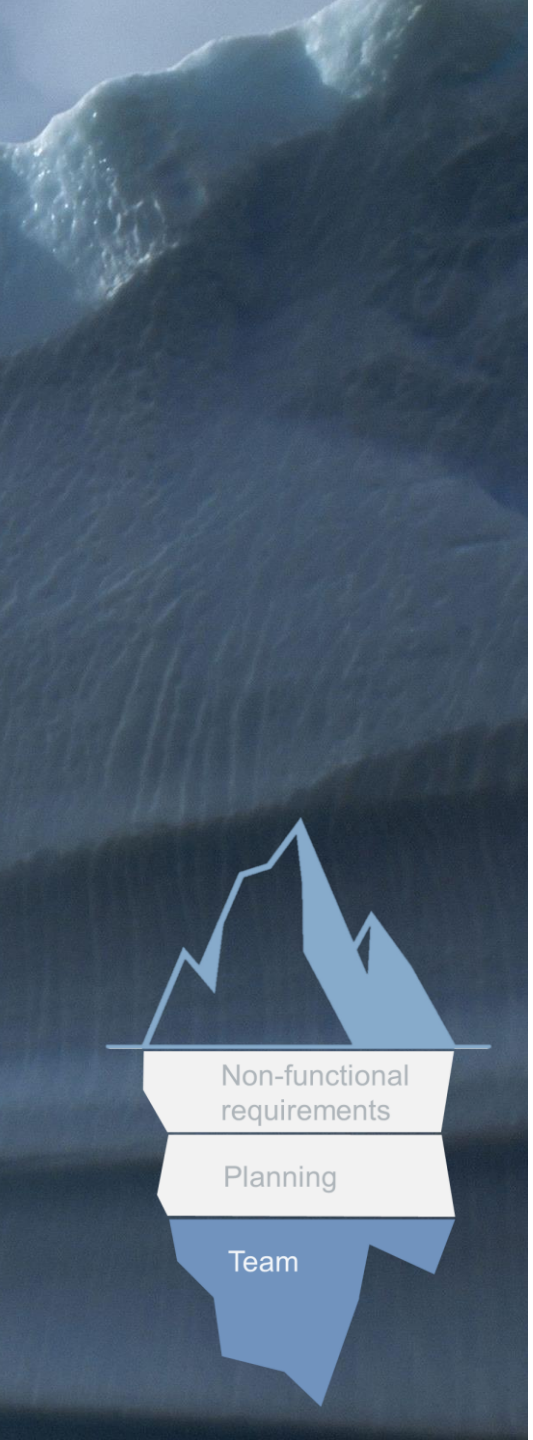
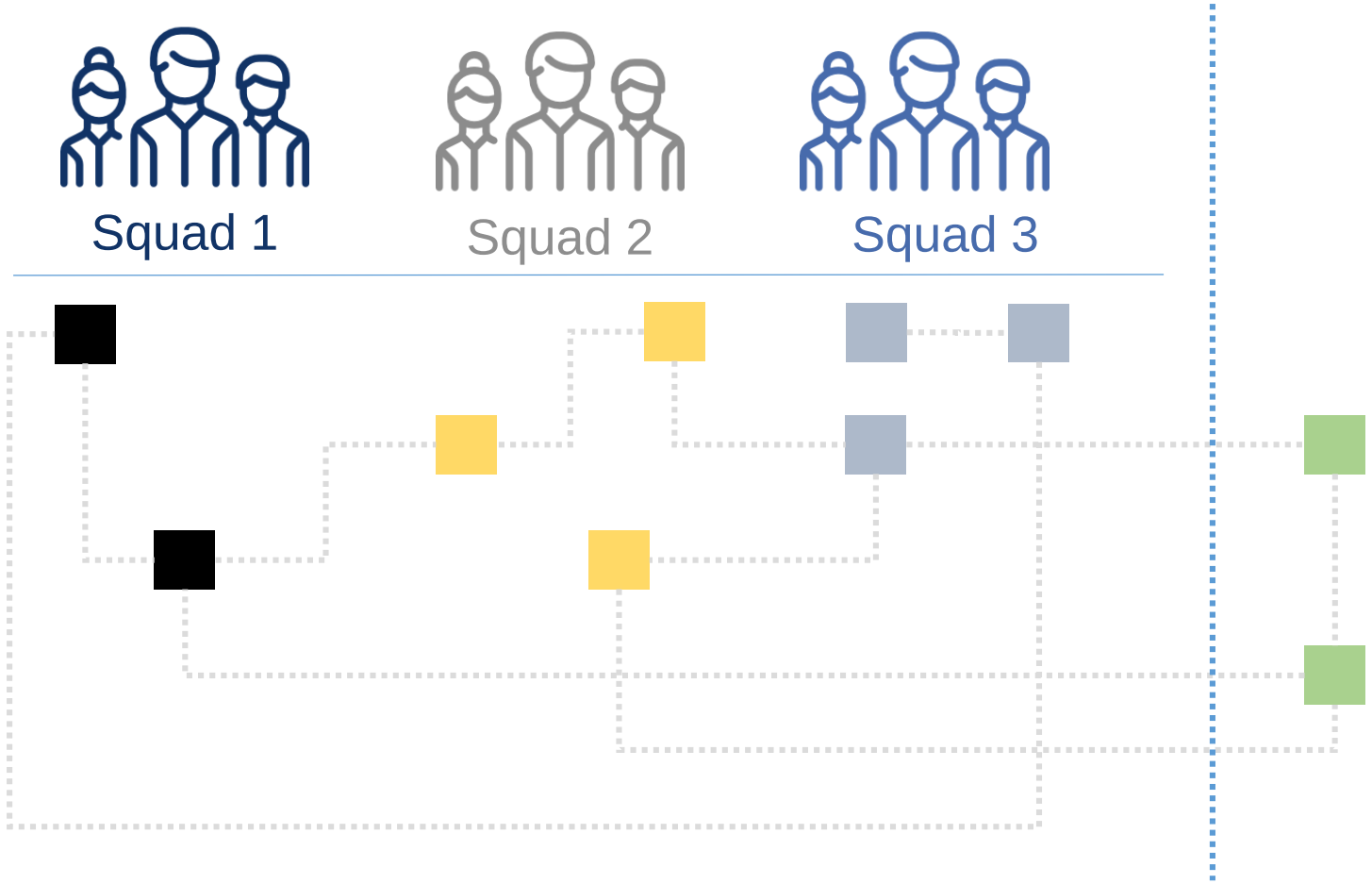
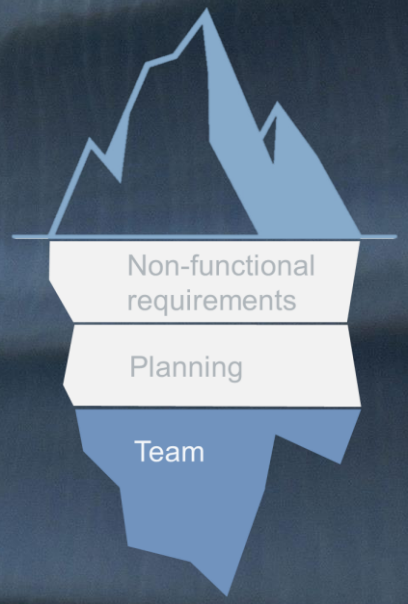
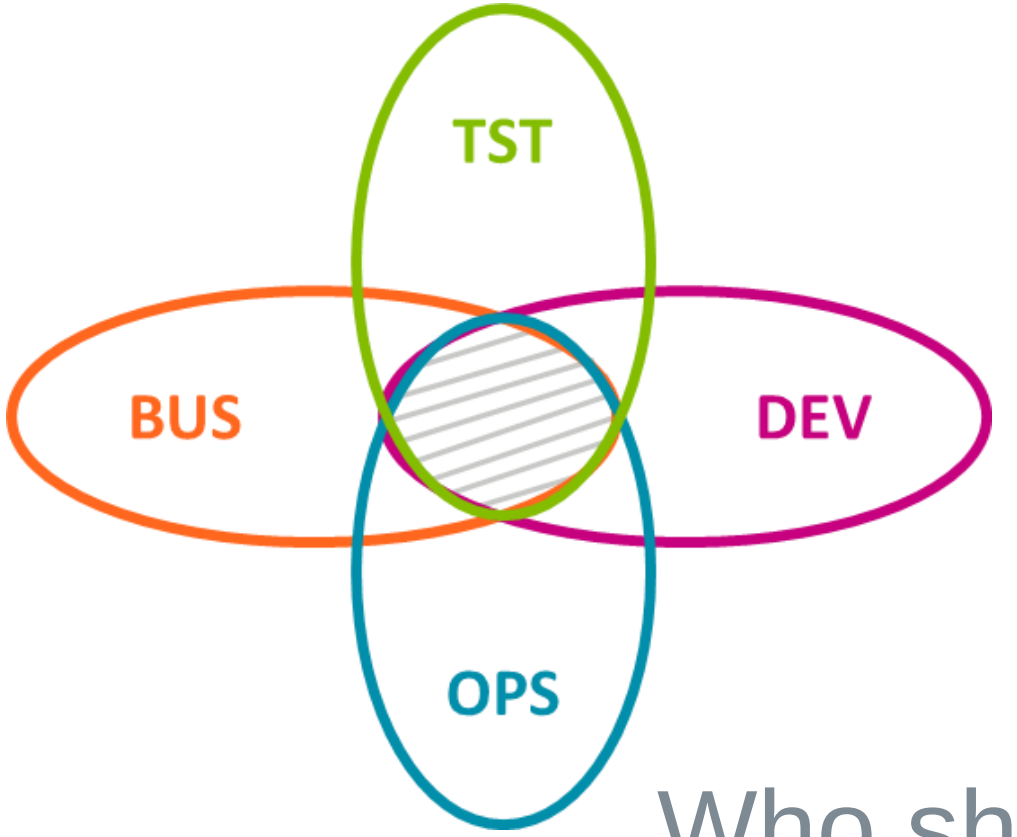

Non-functional requirements
Planning
Team

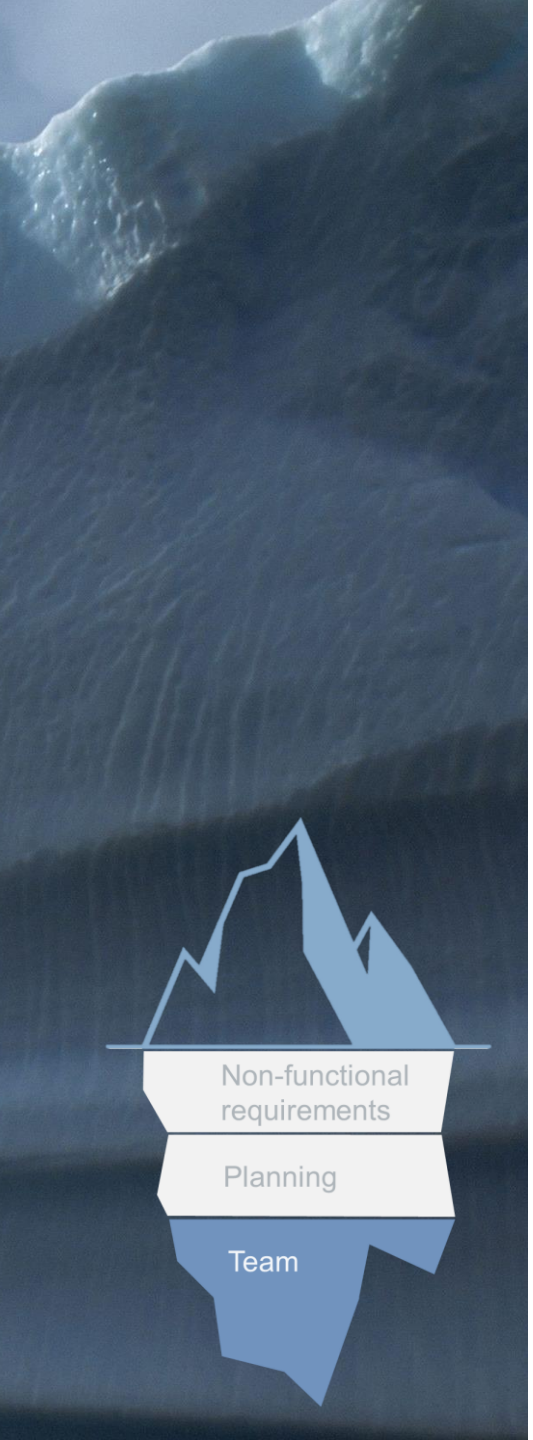

Squad 1
Squad 2
Squad 3



Squad 1 Squad 2 Squad 3



Who should be in?



Squad 1

Squad 2

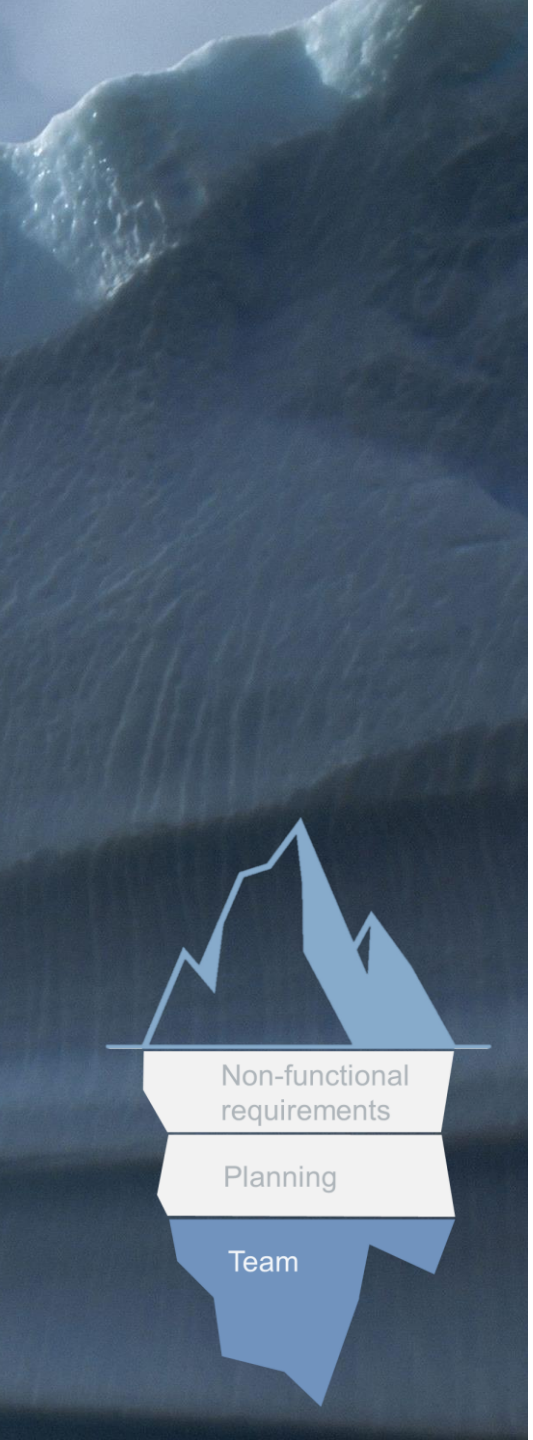
Squad 3

Embedded

Transversal

Center of Excellence

External



APM SQUAD

Roles

APM scrum master · APM engineer · Product Owner · Developer · Analist · Infra Engineer

Fix resources

Flex resources

Ceremonies

Backlog refinement → Sprint planning → Daily standup → Sprint review → Sprint retrospective

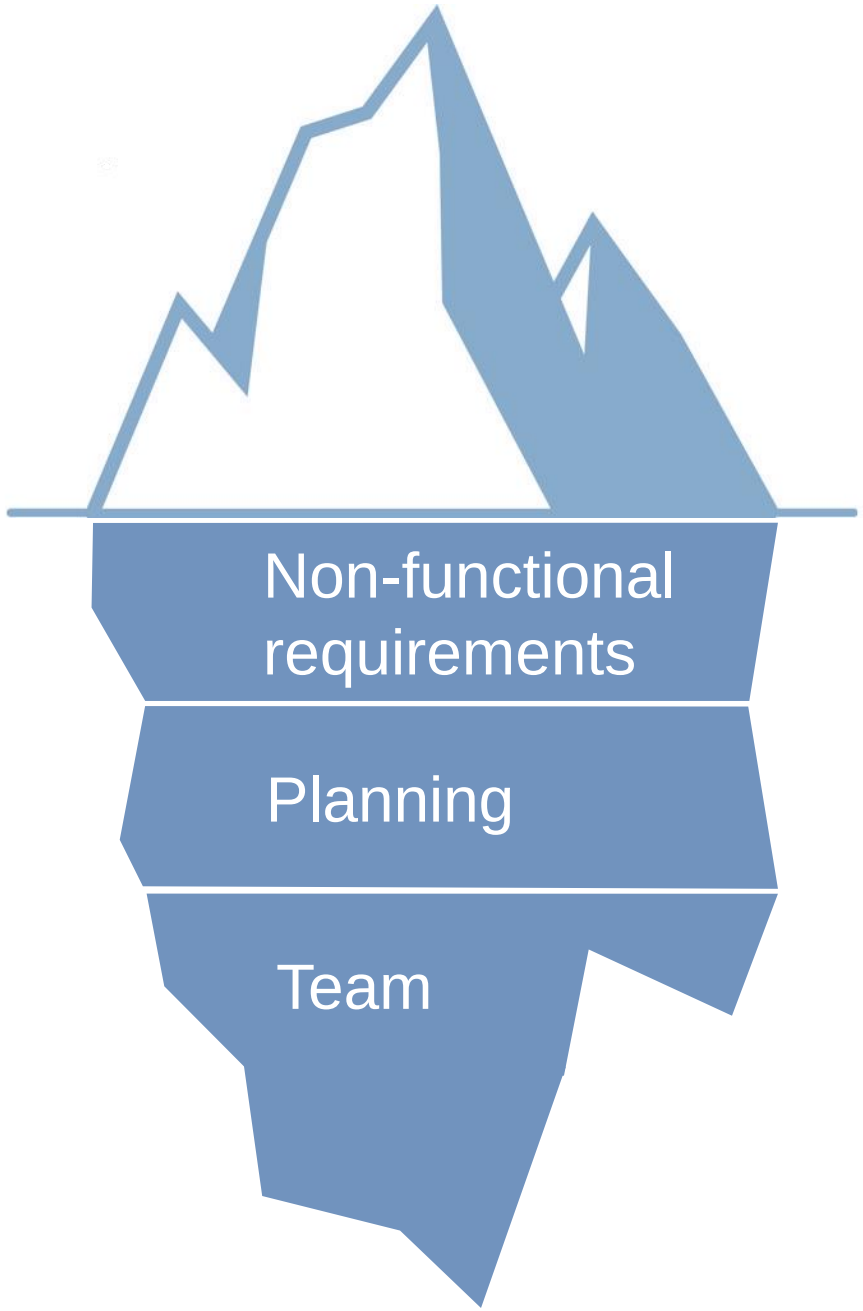
Products

APM product backlog → APM sprint backlog → APM shippable product

Input APM product backlog – Staff flex resources

Proj A · Proj B · Proj C · Proj D · Proj x

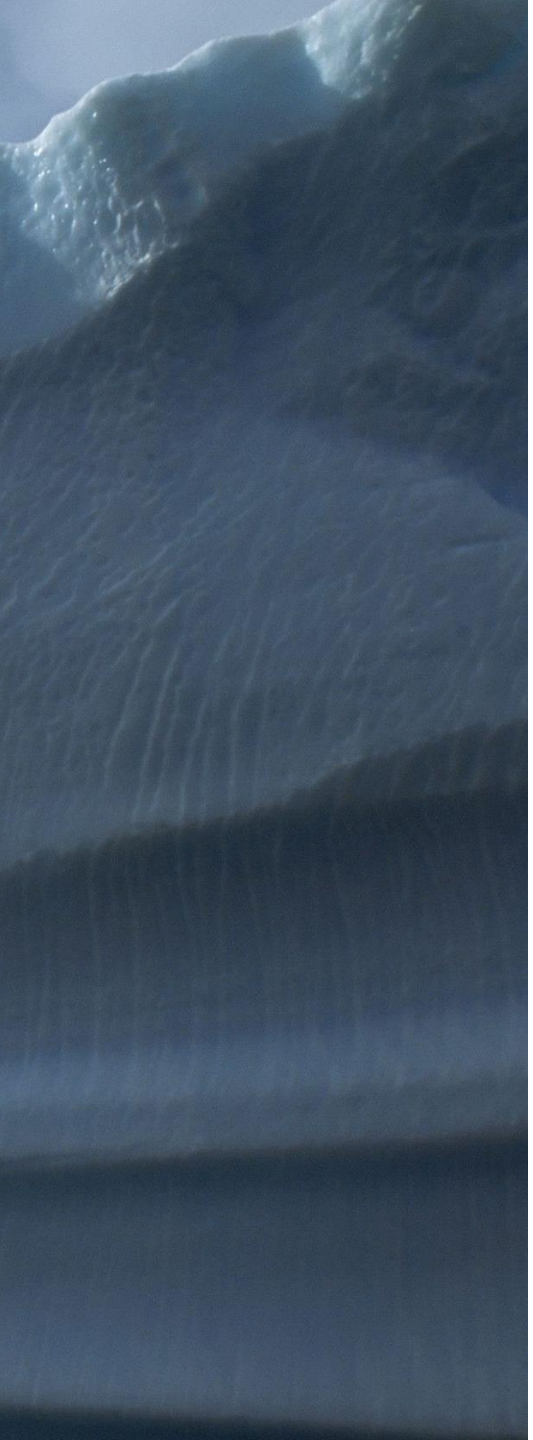
Transversal squad

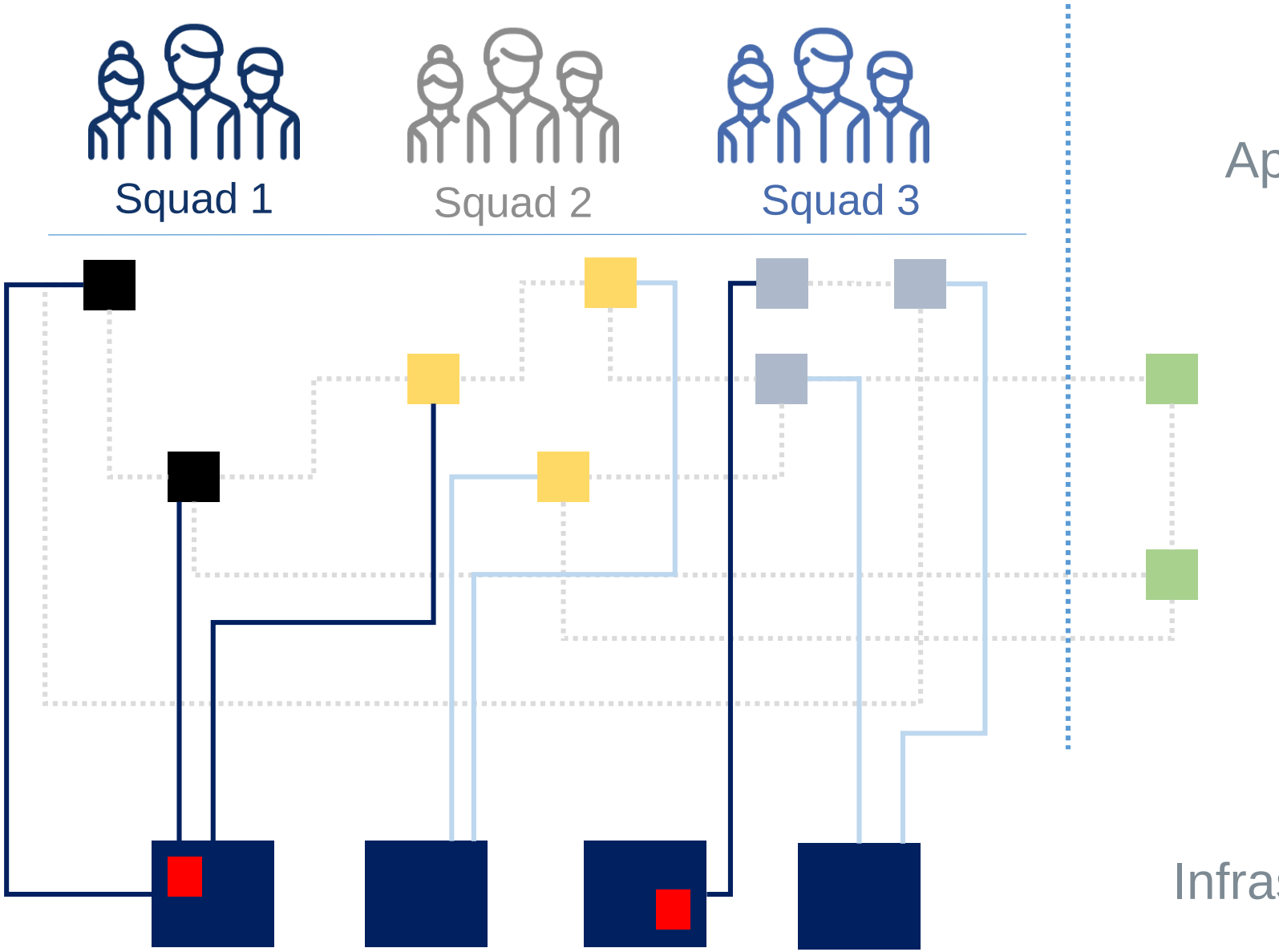


Performance Engineering

- Perf. Monitoring & Optimization
- Performance Testing
- BUS DEV TST OPS
- SDLC Integration
- Agile Approach

process | people | technology




Squad 1
Squad 2
Squad 3
Application
Infrastructure

.iceberg {
display: block;
color: ice-blue;
}
#titanic {
position: absolute;
bottom: 0;
}