Module 4

How does organization affect Devops?
Is the culture of your organization agile?
  → Small teams
  → Dedicated teams
  → Cross - functional teams
  → Self organizing teams.

Conway's Law

Any organization that designs a system
will produce a design whose structure is
a copy of the org's communication structure

                            - Melvin Conway

Align teams with the business:

→ Each team has its own mission aligned with the mission. business.

→ Teams have end to end responsibility for what they build.

Bad Behaviour:-

It arises when you abstract people away from the consequences of their actions

                       — Jez Humble.

Functional silos Breed bad behaviour

Module -5

Measure what matters:

Social metrics:

DevOps metrics : o baseline provides a concrete no. for comparison as you implement your DevOps changes

MTTF → MTTR

Vanity Metrics:

→ We had 10k daily hits to our website!

→ Now what? (what does hit represent?)

→ What actions drove those visitors to you?

→ what actions to take next?

Actionable Metrics

→ Reduce time to market
→ Increase overall availability
→ Reduce the time to deploy.
→ Defects detected before production

Top four actionable metrics

→ Mean Lead time
→ Release frequency
→ Change failure rate
→ Mean time to repair (MTTR)

Culture Measurement

Strongly agree or disagree.

Site Reliability Engineering:

"what happens when a software engineer is tasked with what used to be call operations.

Tenets of SRE

→ Hire only s/w engi
→ Site reliability engi. work on reducing toil through automation.
→ SRE teams are separate from dev teams
→ Stability is controlled through error budgets.