

The Trouble with
“Component Teams”
and
and alternative:
“Feature Teams”

or “Scaling Scrum”

バスはどれでしょう？



or 八斯是谁？

Scaling Lean & Agile Development

Successful Large, Multisite & Offshore Products
with Large-Scale Scrum

Craig Larman
Bas Vodde



Good Thinking, Good Products

品質と効率
Quality and Efficiency
品质与效率



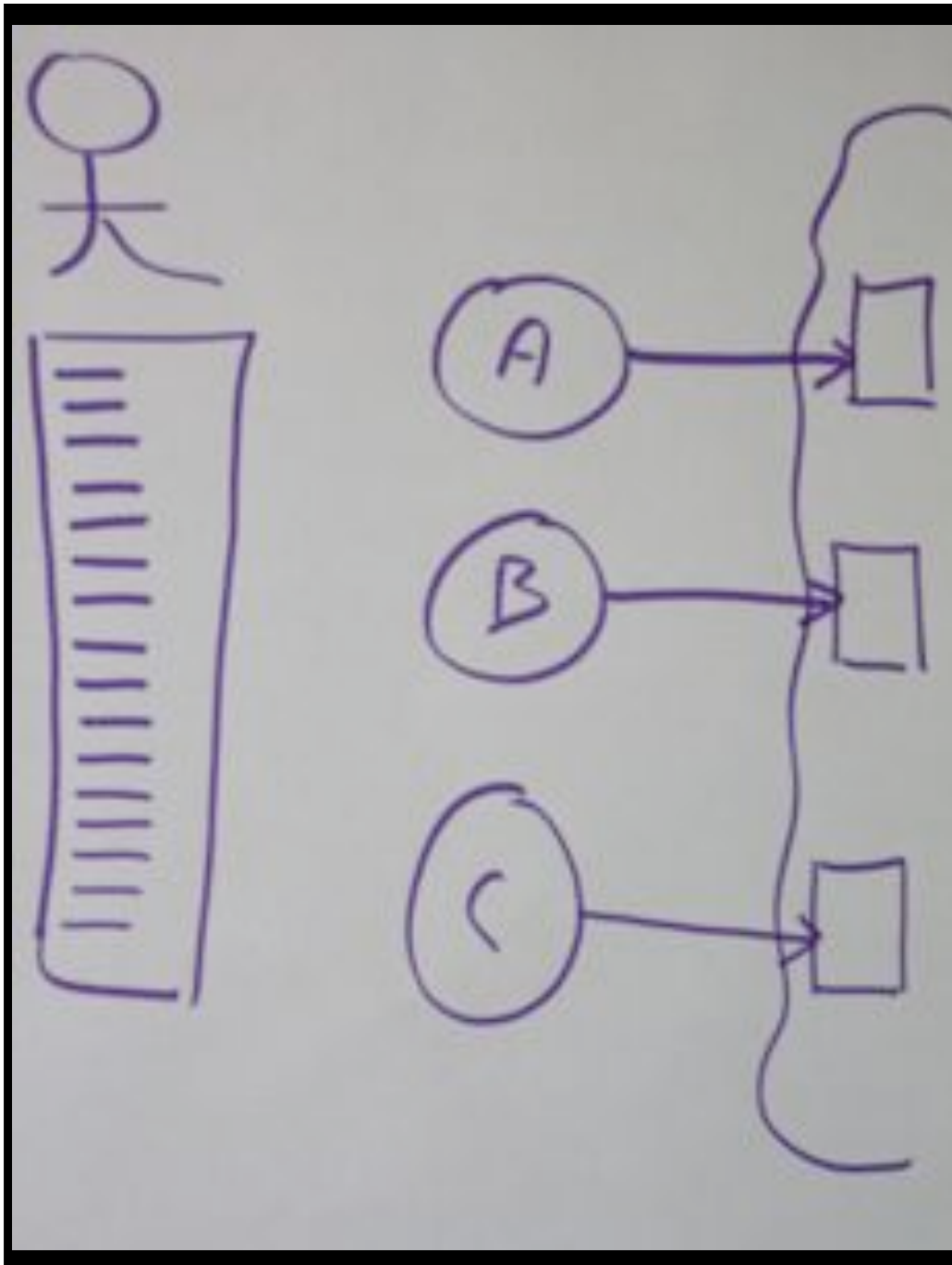
Conway's law

Any organization that designs a system (defined more broadly here than just information systems) will inevitably produce a design whose structure is a copy of the organization's communication structure.

And...

Because the design that occurs first is almost never the best possible, the prevailing system concept may need to change. Therefore, flexibility of organization is important to effective design.

- Mel Conway

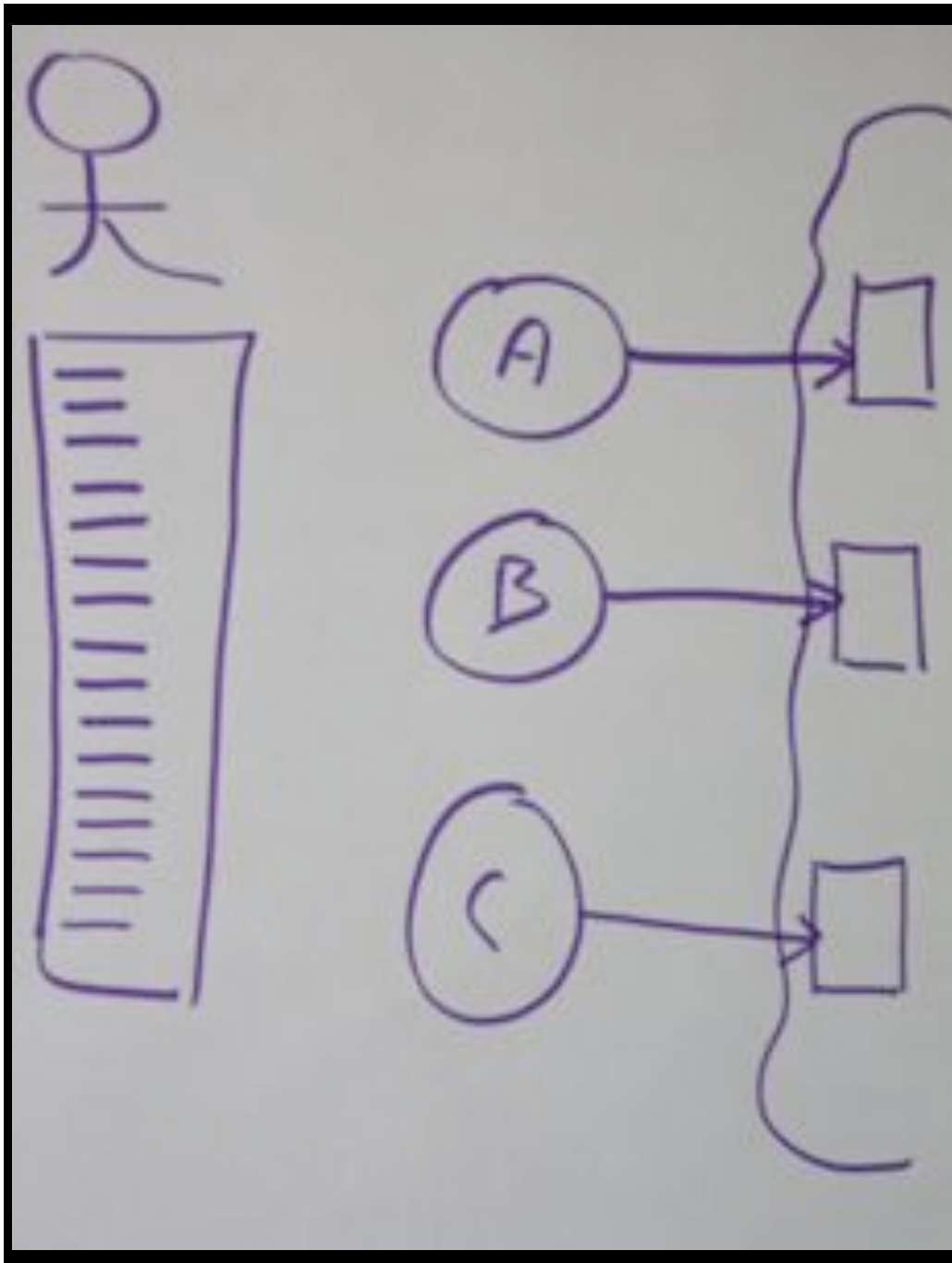


One ProductOwner

Multiple Teams

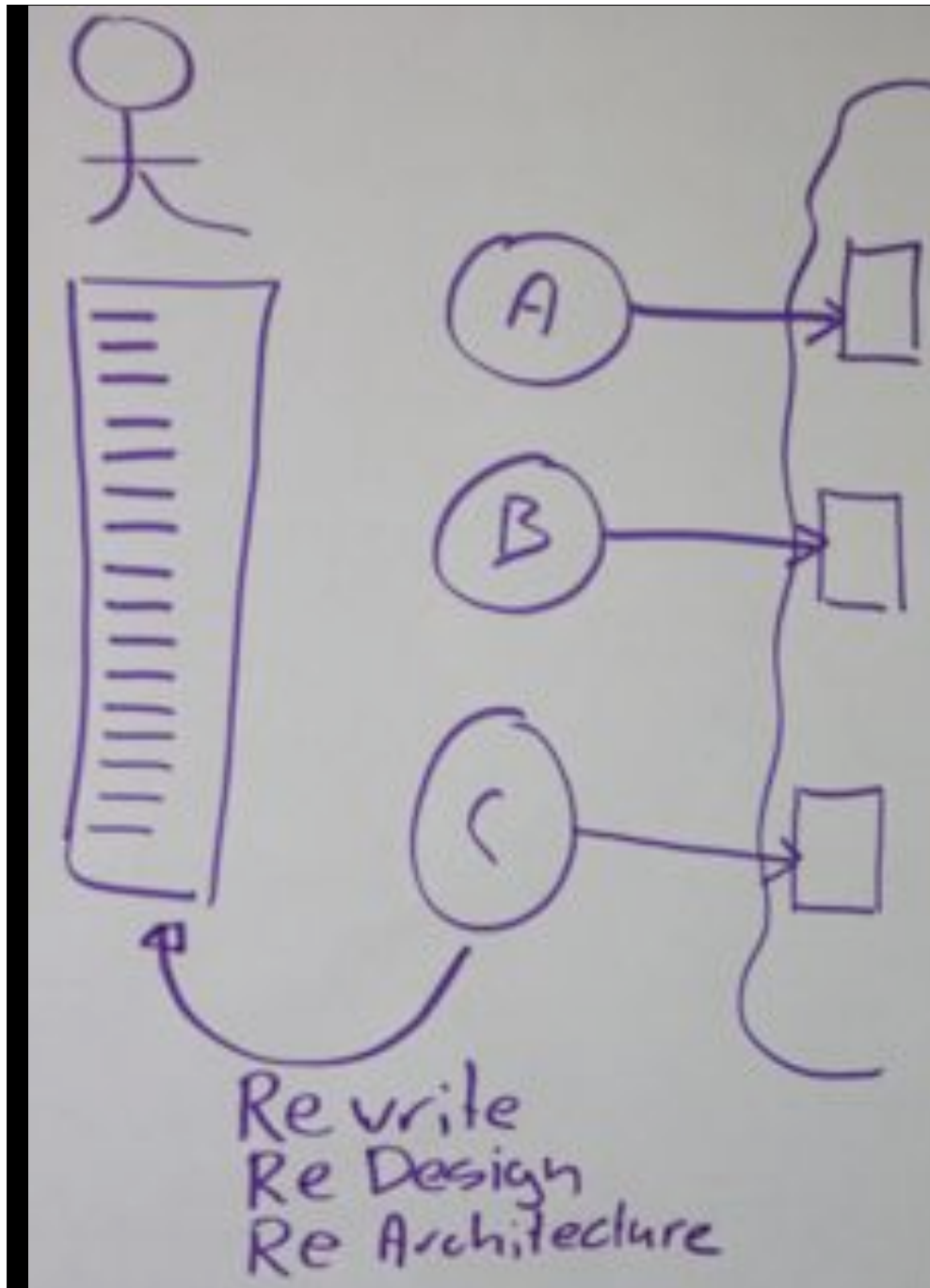
Teams own a part of
the system:

“Component teams”



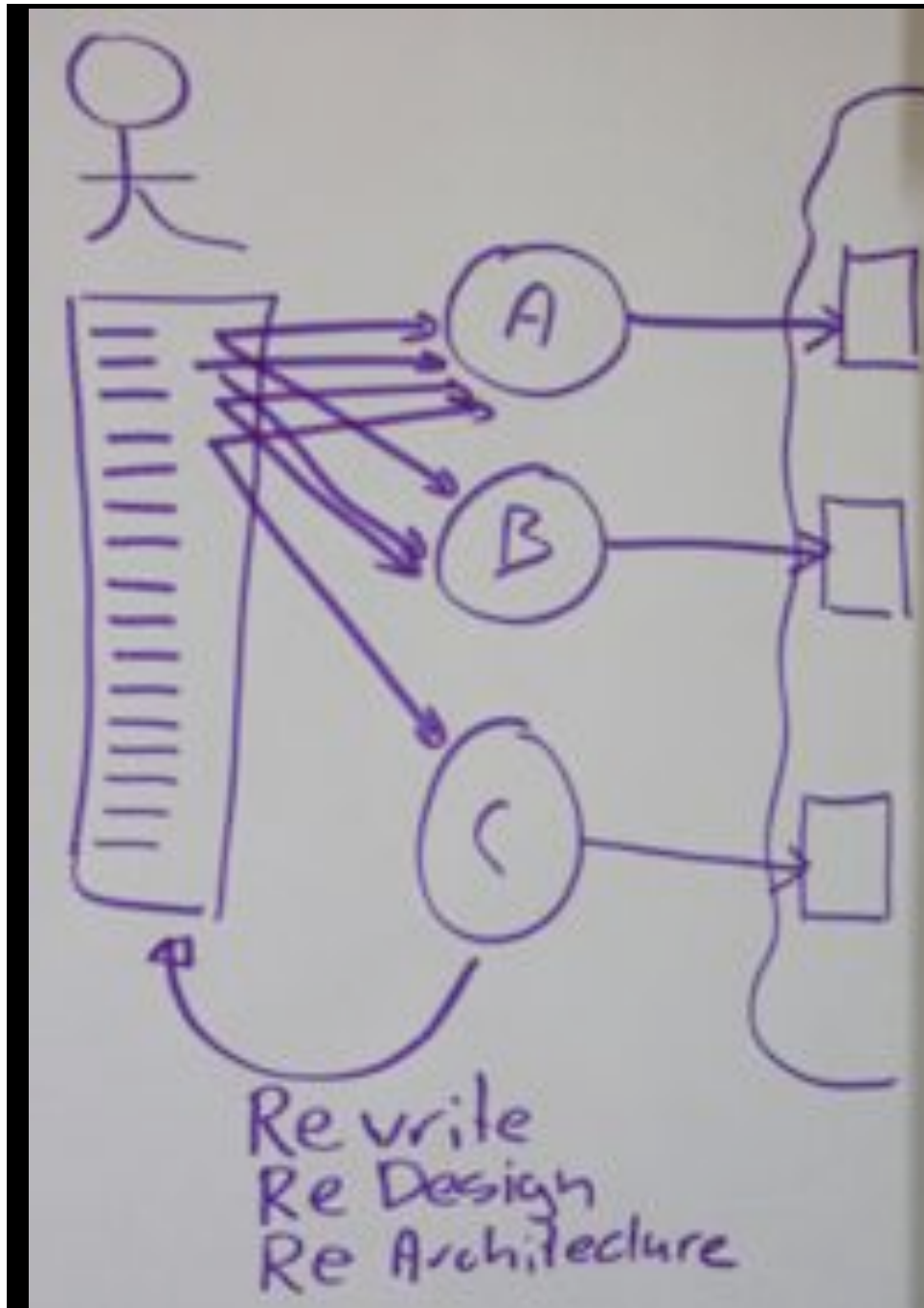
Low value work is implemented

Everybody always busy?



“Work gets created”

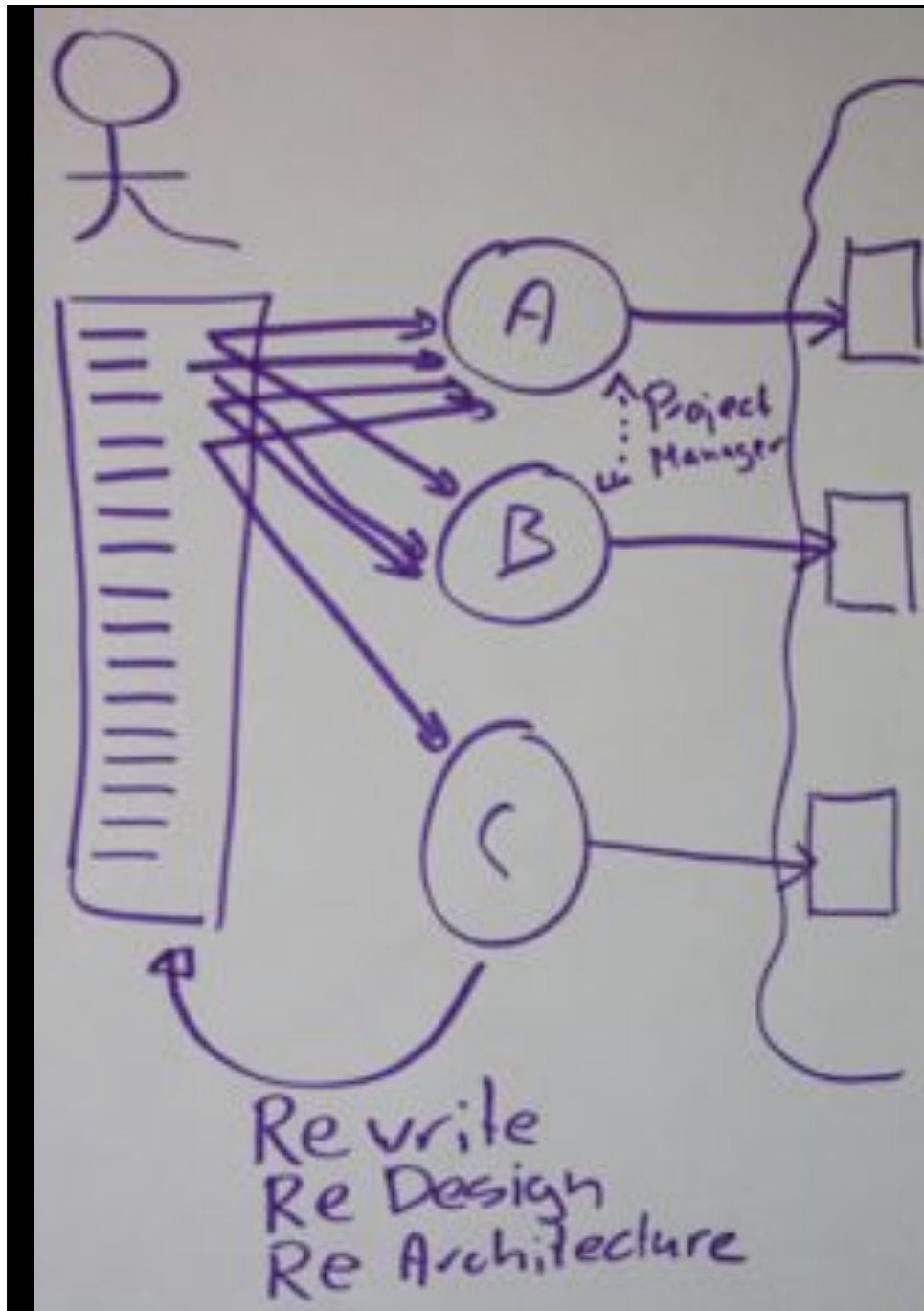
Large systems... grow larger by default



One requirement
does not map to one
team

Dependencies never
balance out

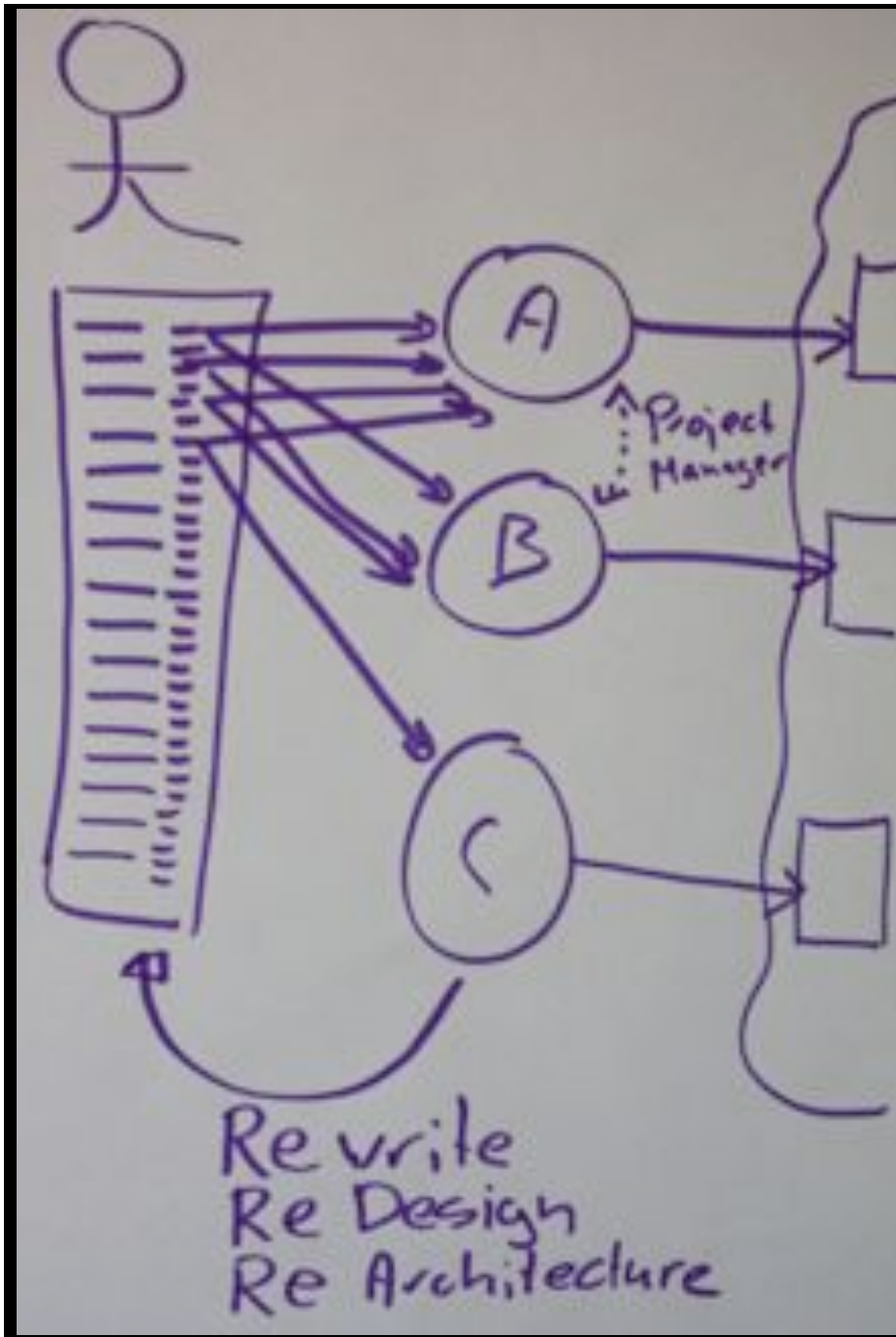
Result: Not complete
requirements
integrated



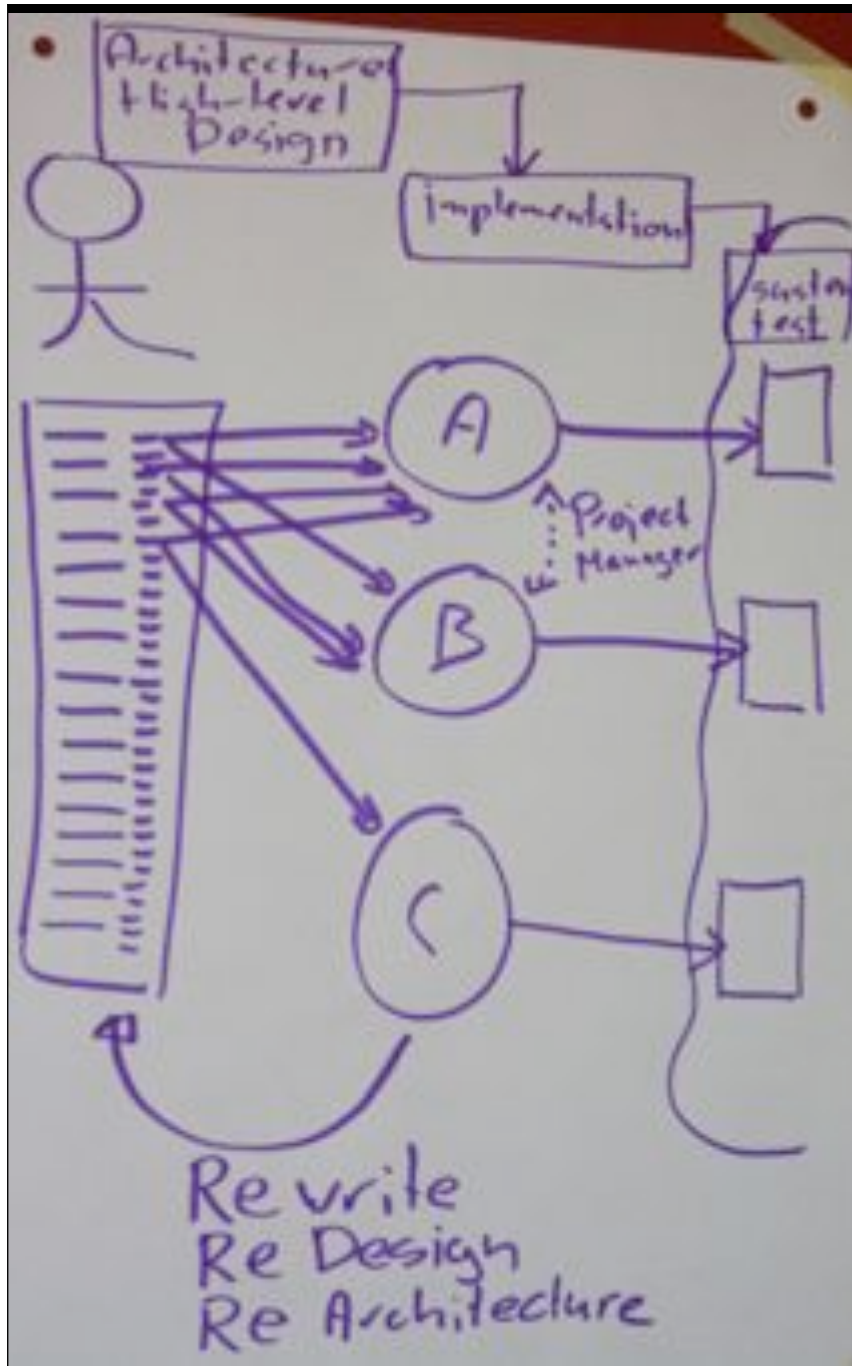
Assign a problem to a role

Impossible job, requirements never balance out.

Result: priority and resource fights

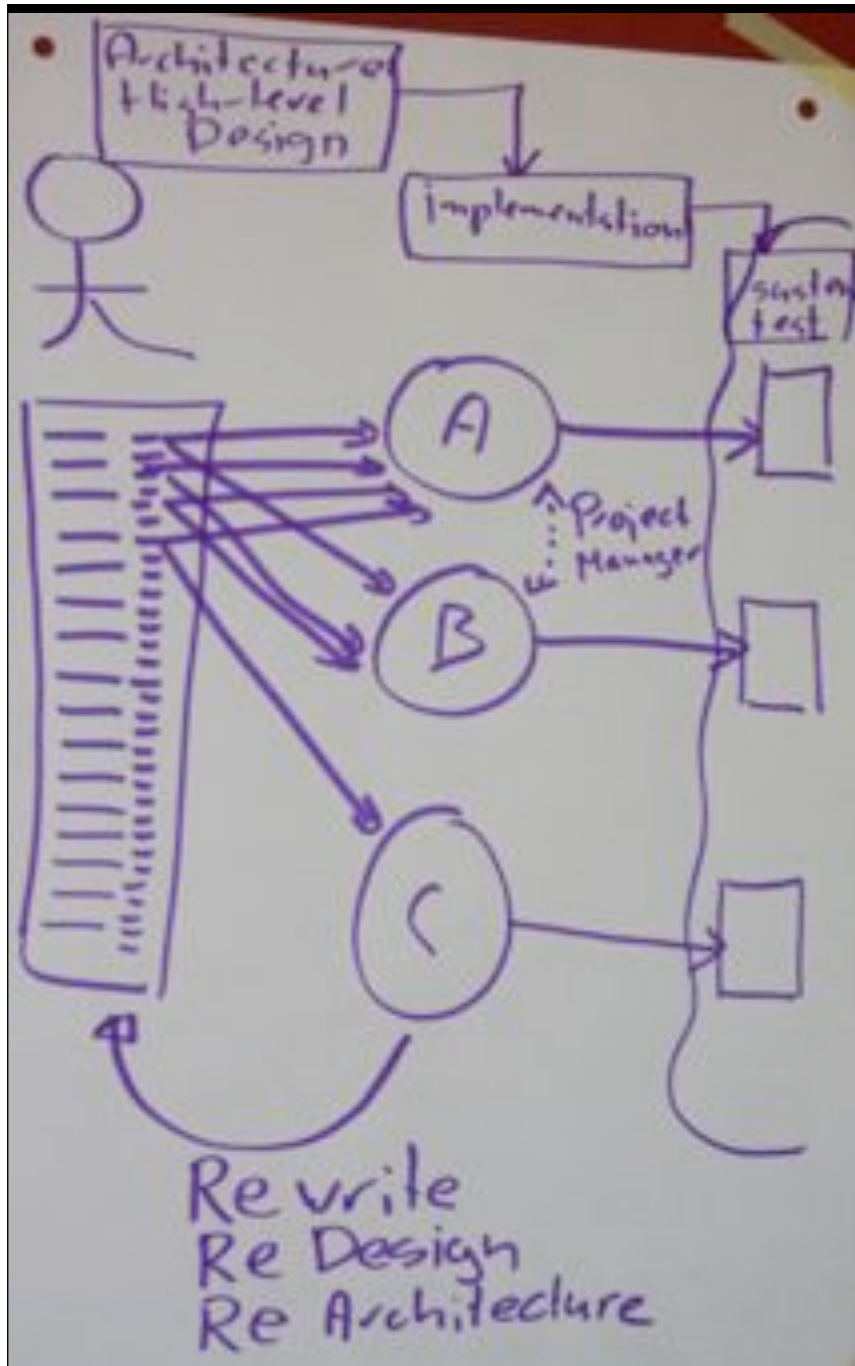


Large backlog items must be split in “less customer-centric backlog items”

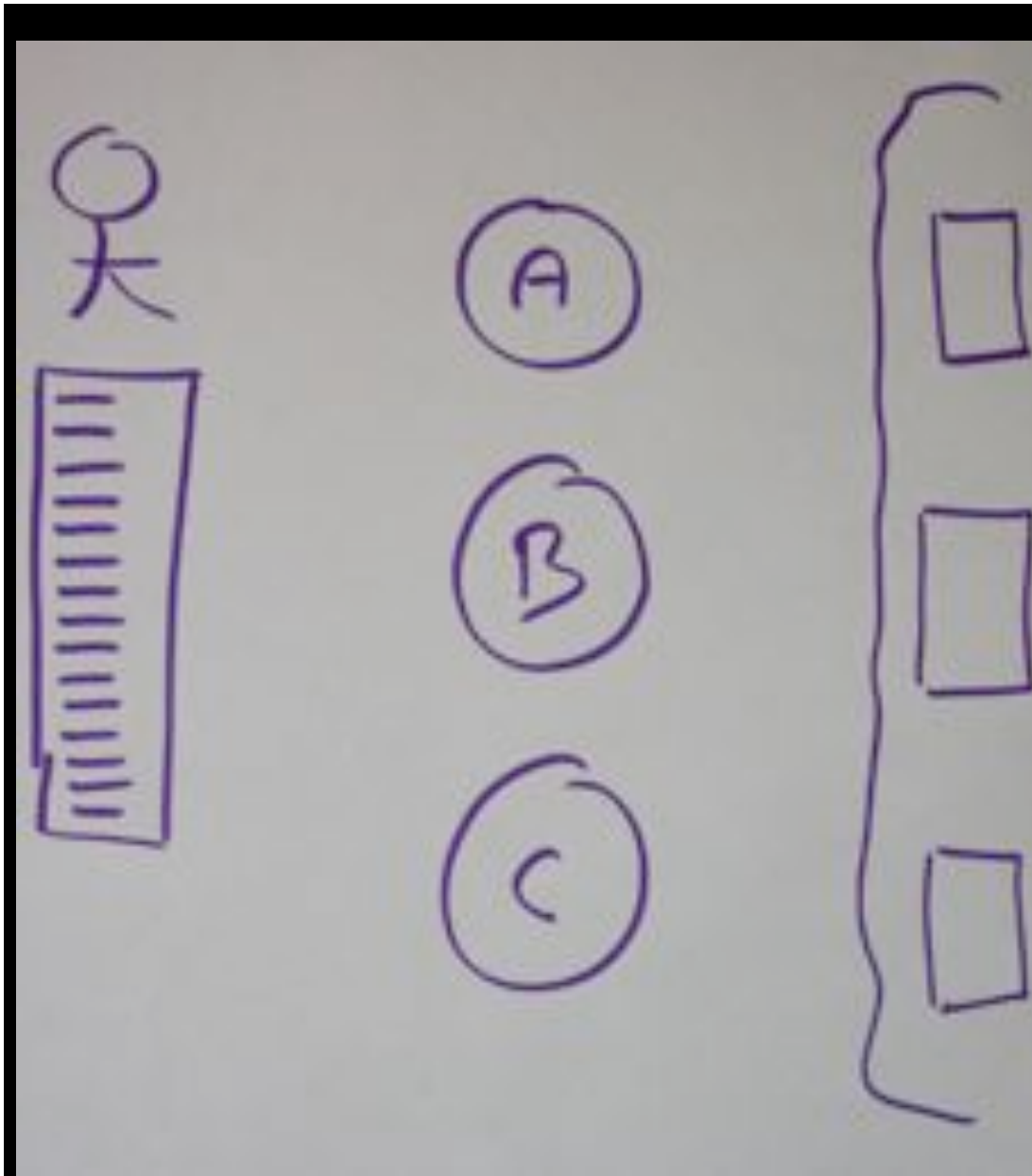


Splitting before the iteration starts:
“Architecture”

Testing after the iterations ends:
“System test”

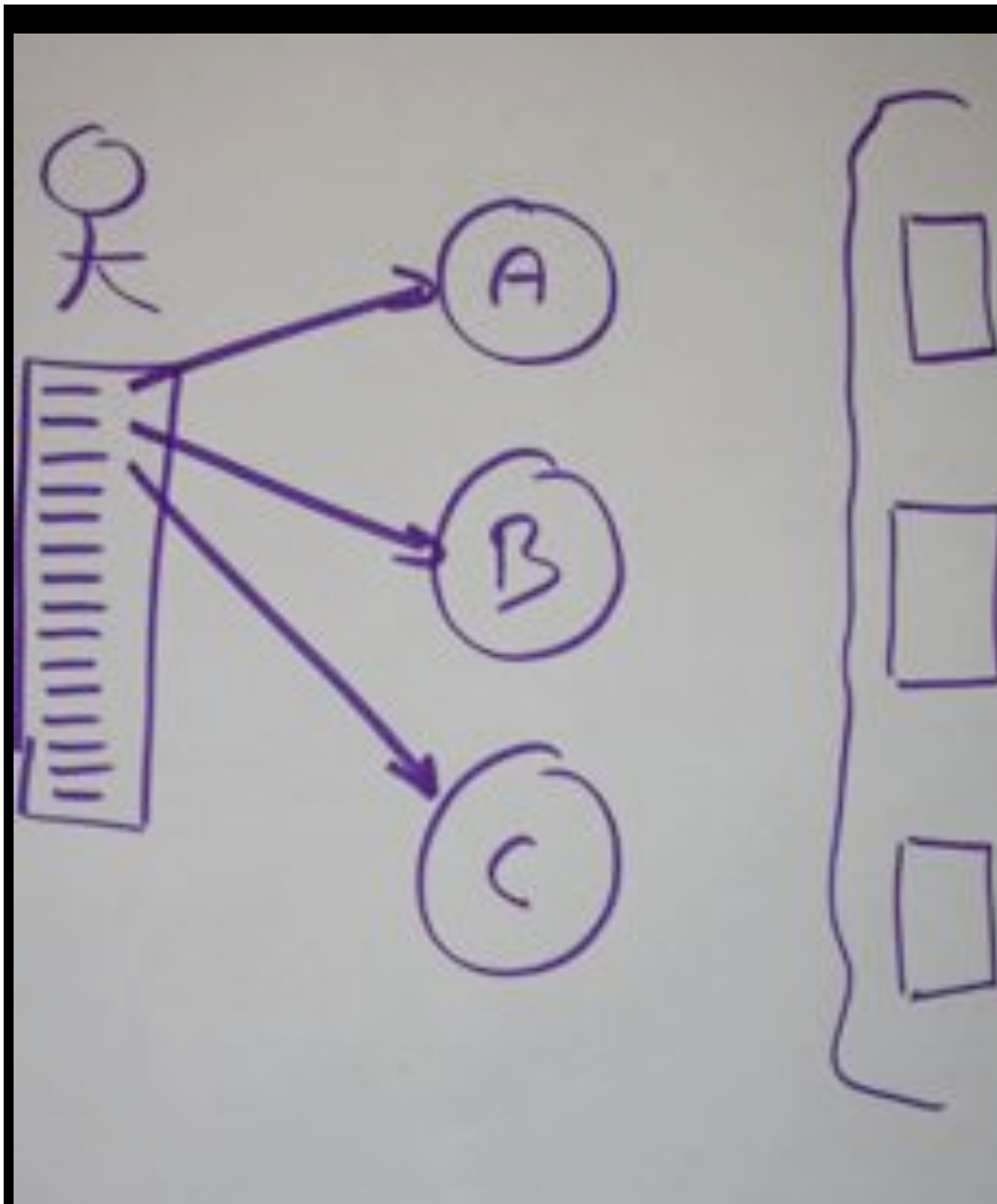


How to become good? ...



One ProductOwner

3 Teams

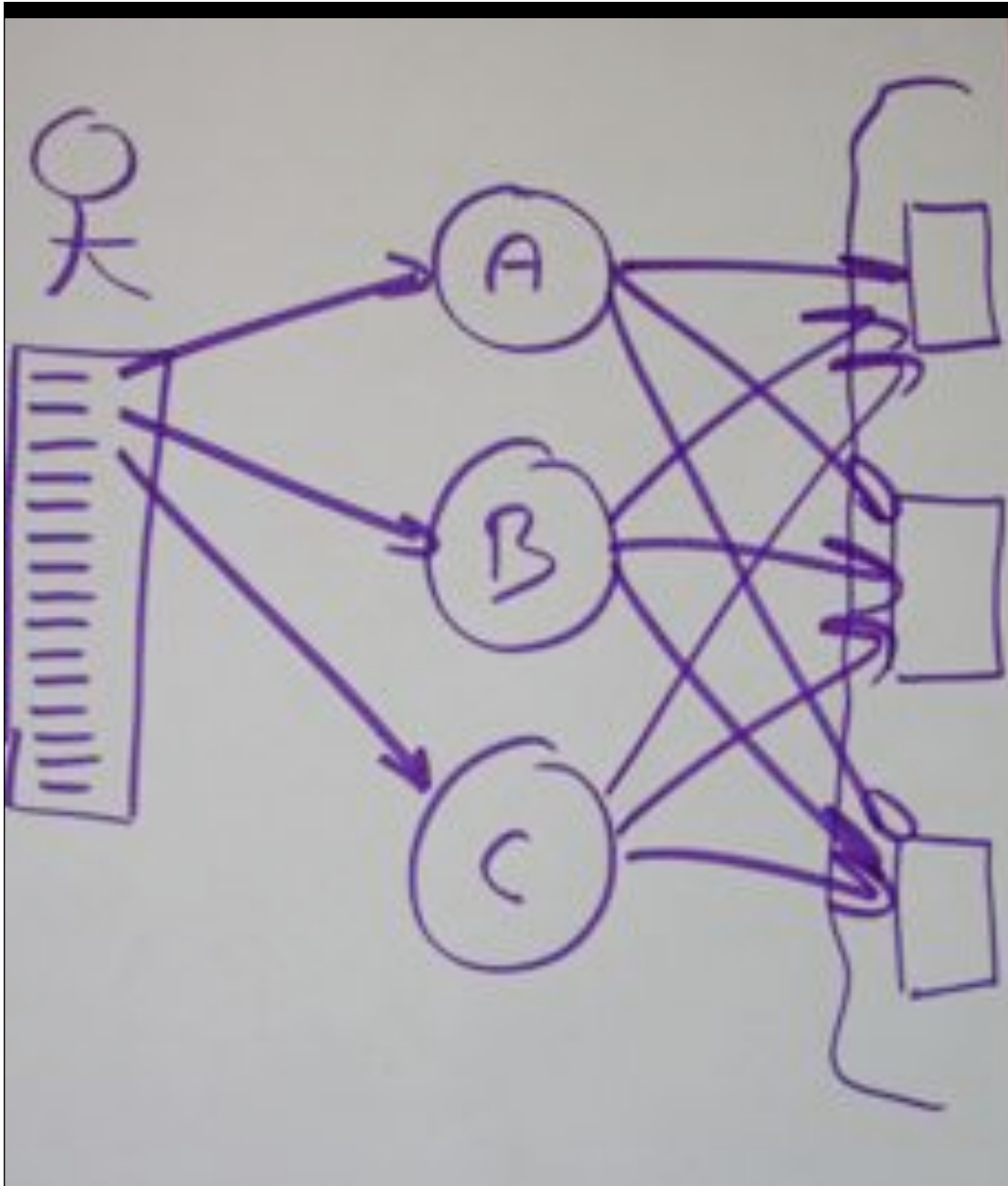


Give complete requirements to teams:
“Feature teams”

All dependencies within the team

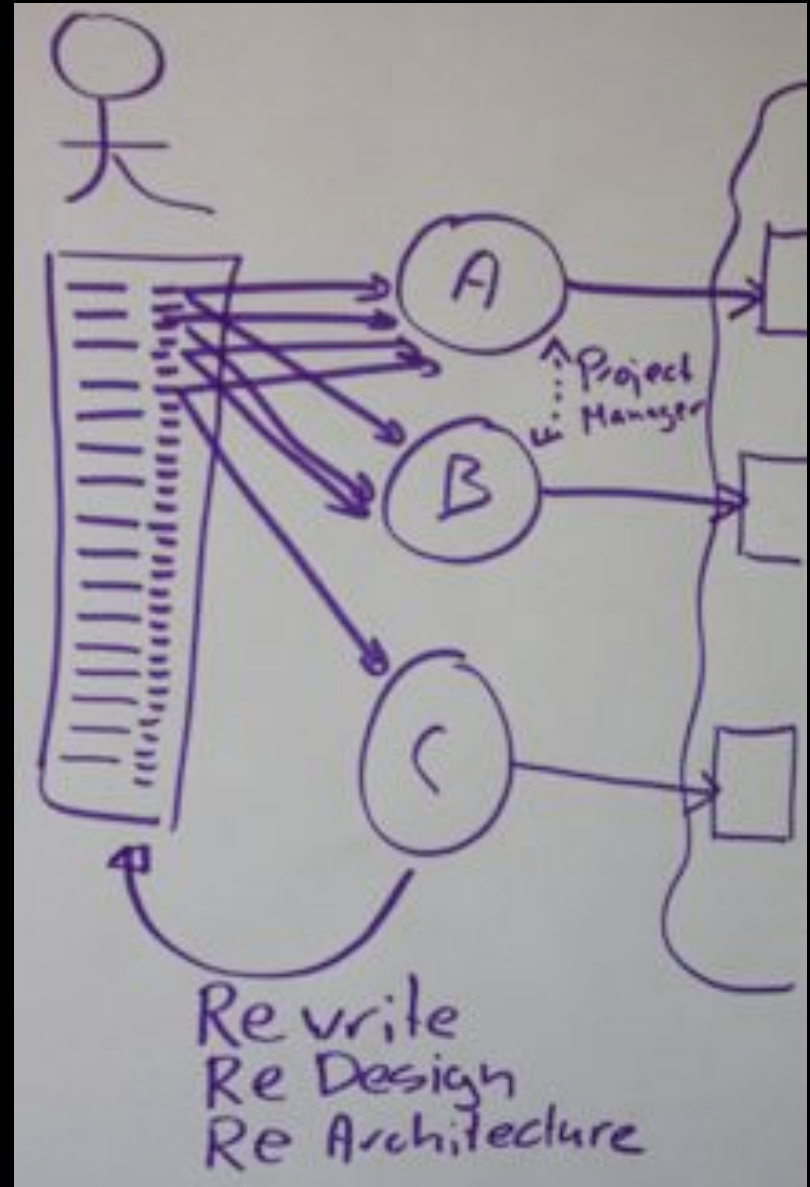
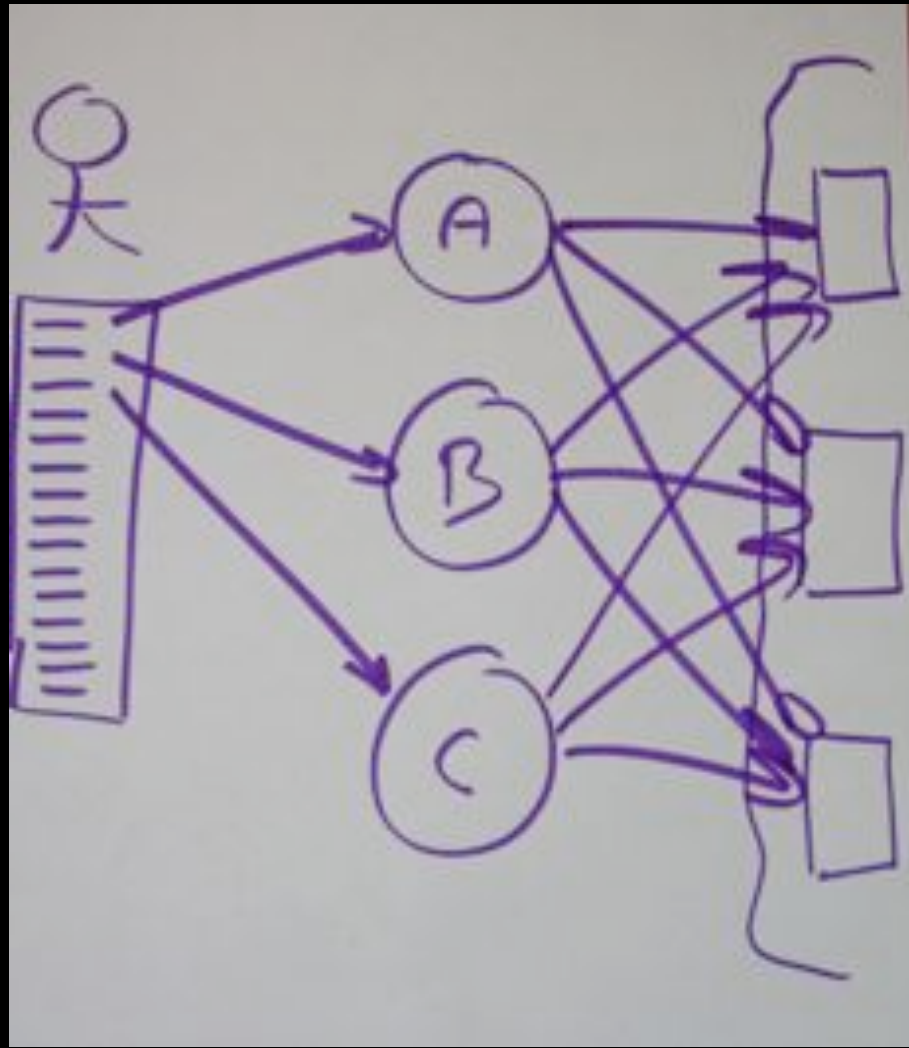
Feature Teams

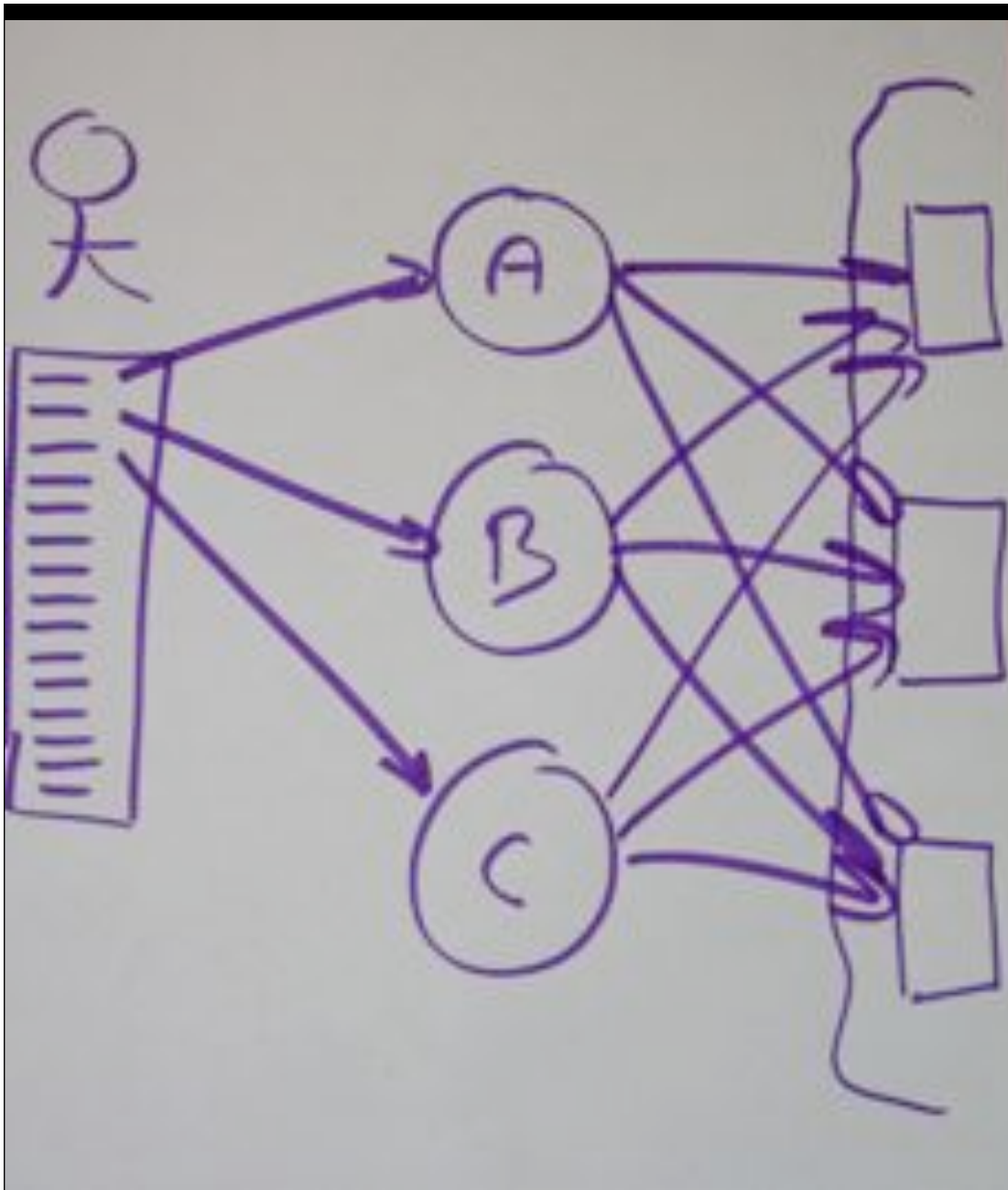
- long-lived—the team stays together so they can ‘jell’ for higher performance; they take on new features over time
- cross-functional and co-located
- work on a complete customer-centric feature, across all components and disciplines
- composed of generalizing specialists



New problem:

Dependency moved





Modern version control (e.g. svn)

Continuous integration development practice

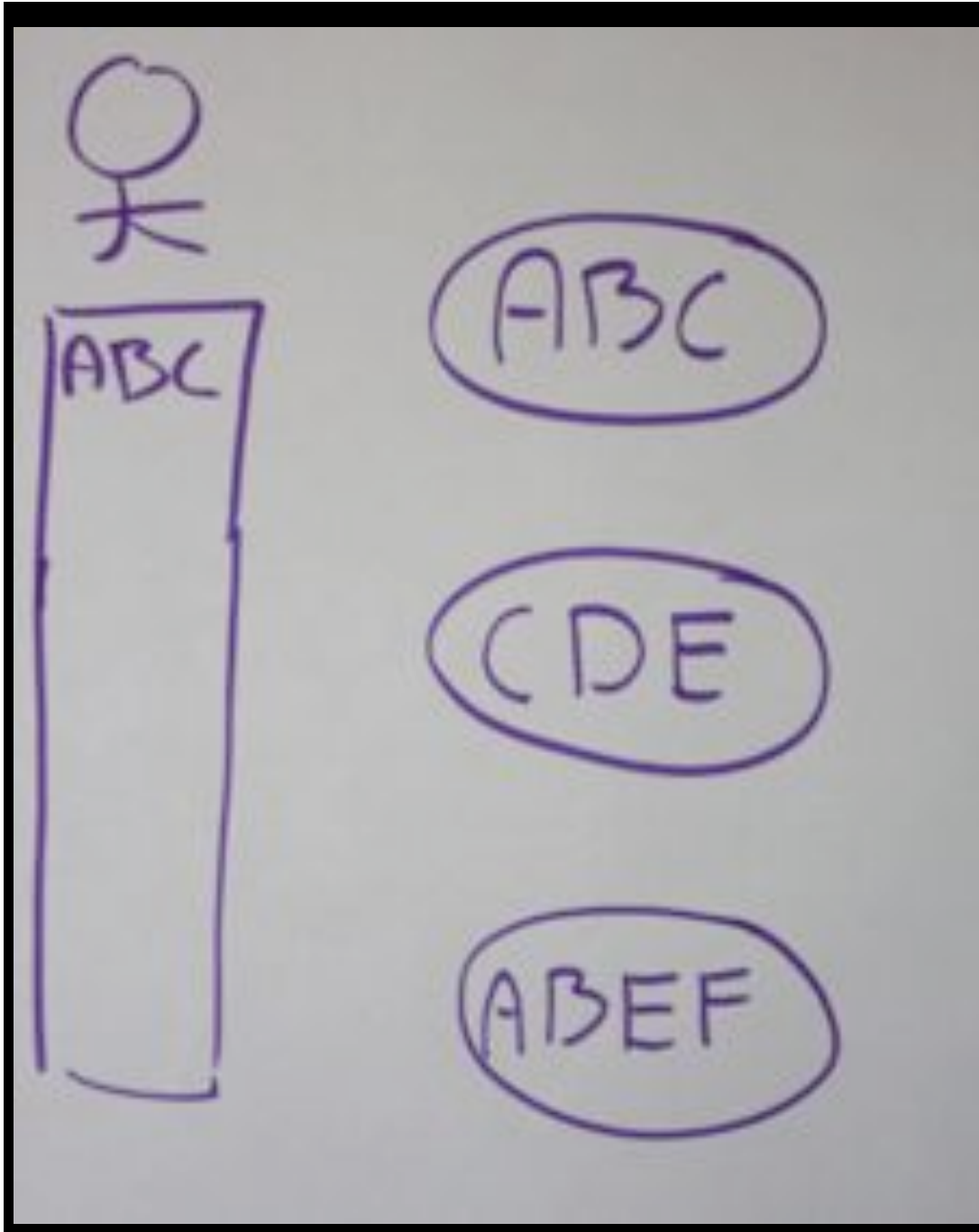
Automated build and test

ABC

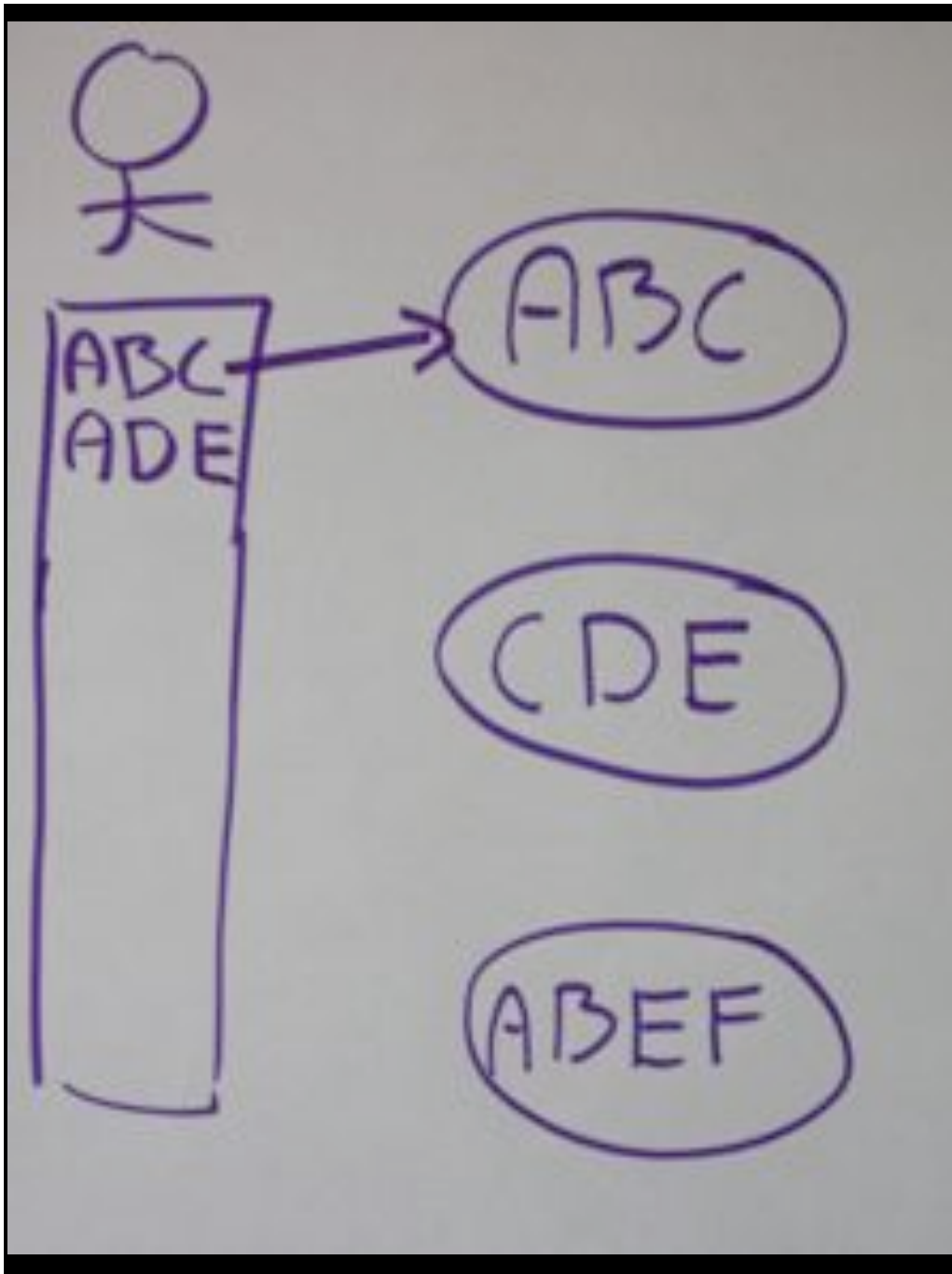
CDE

ABEF

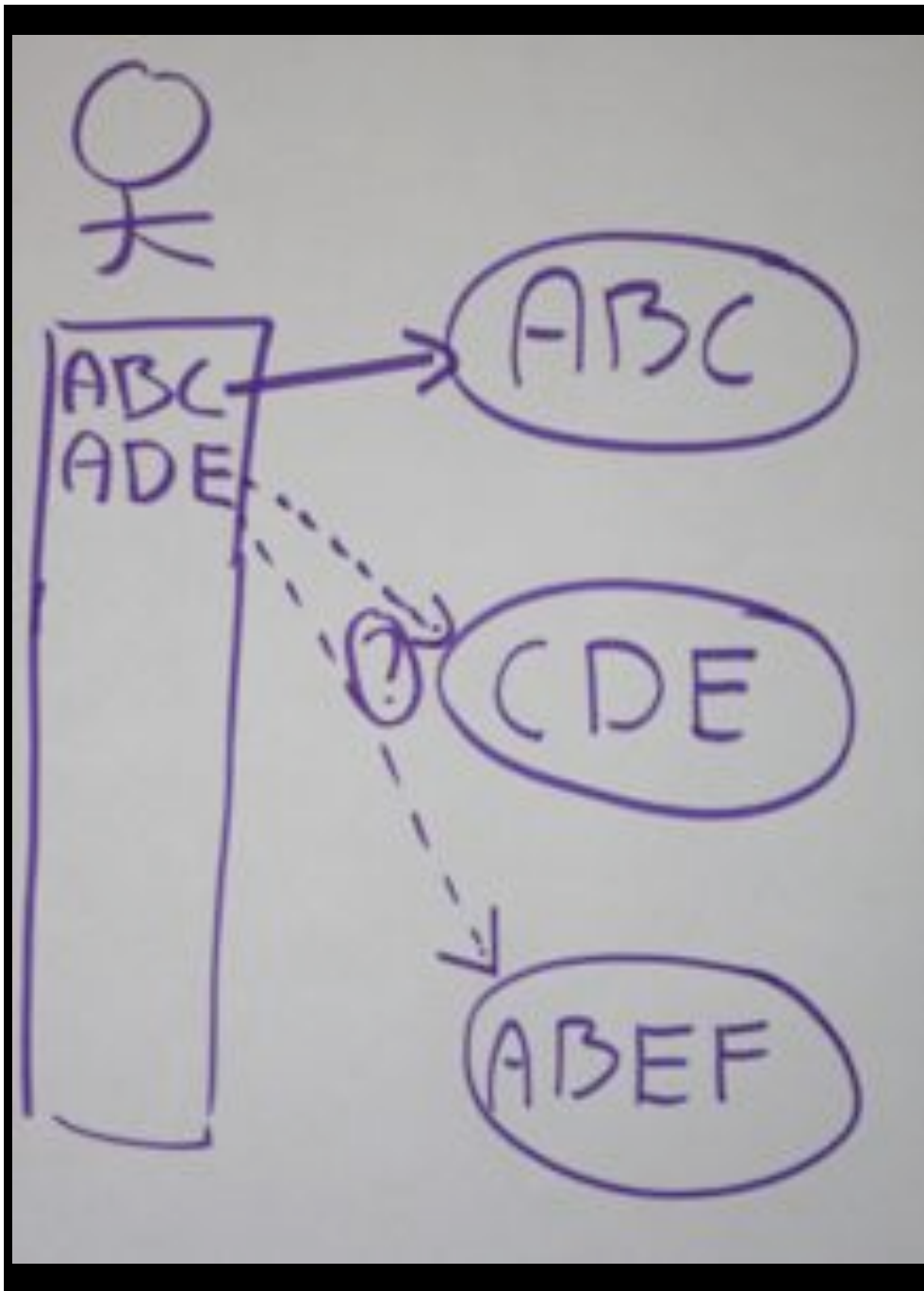
Person specialization



Team specialization



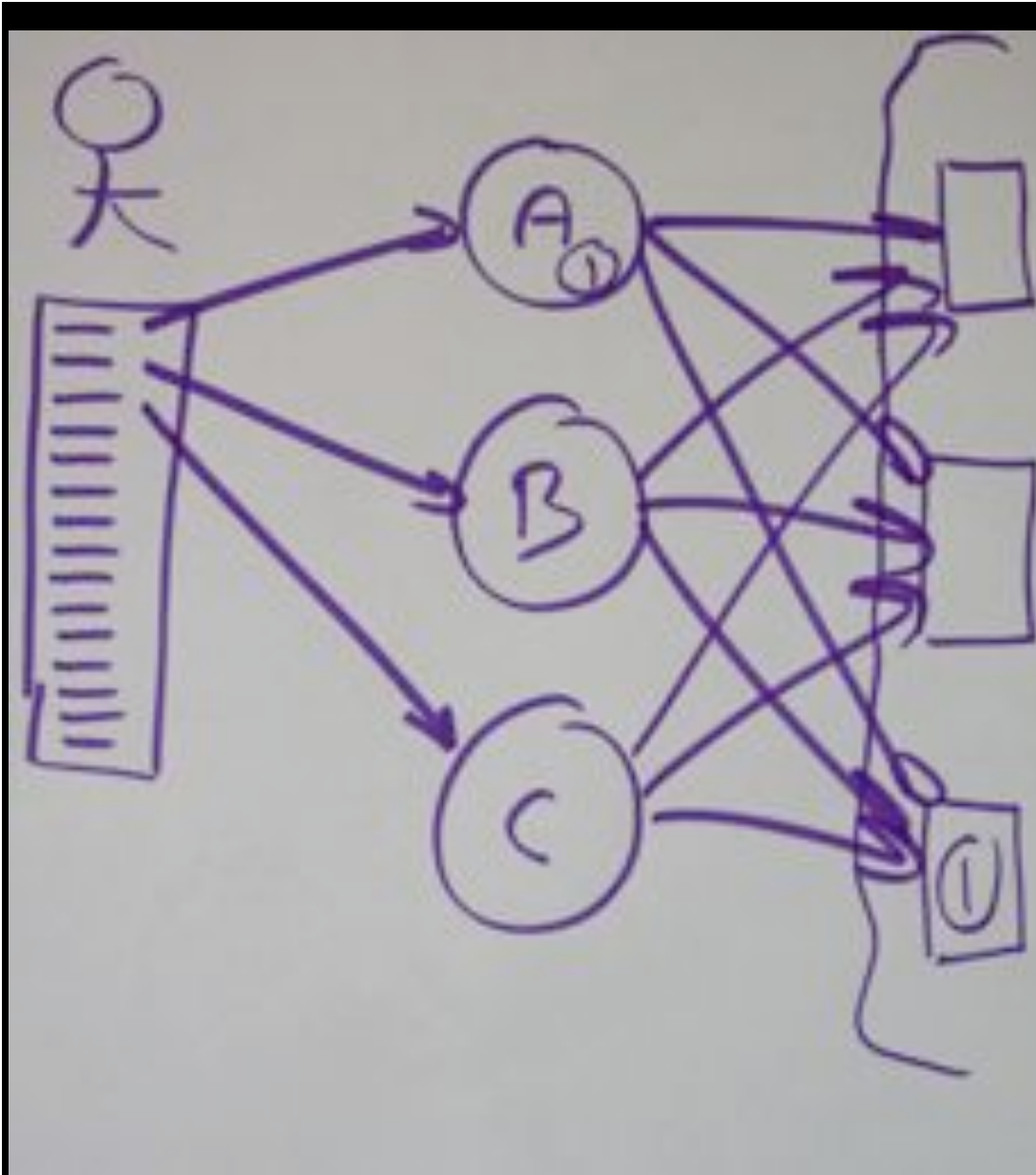
Team specialization



Specialization good

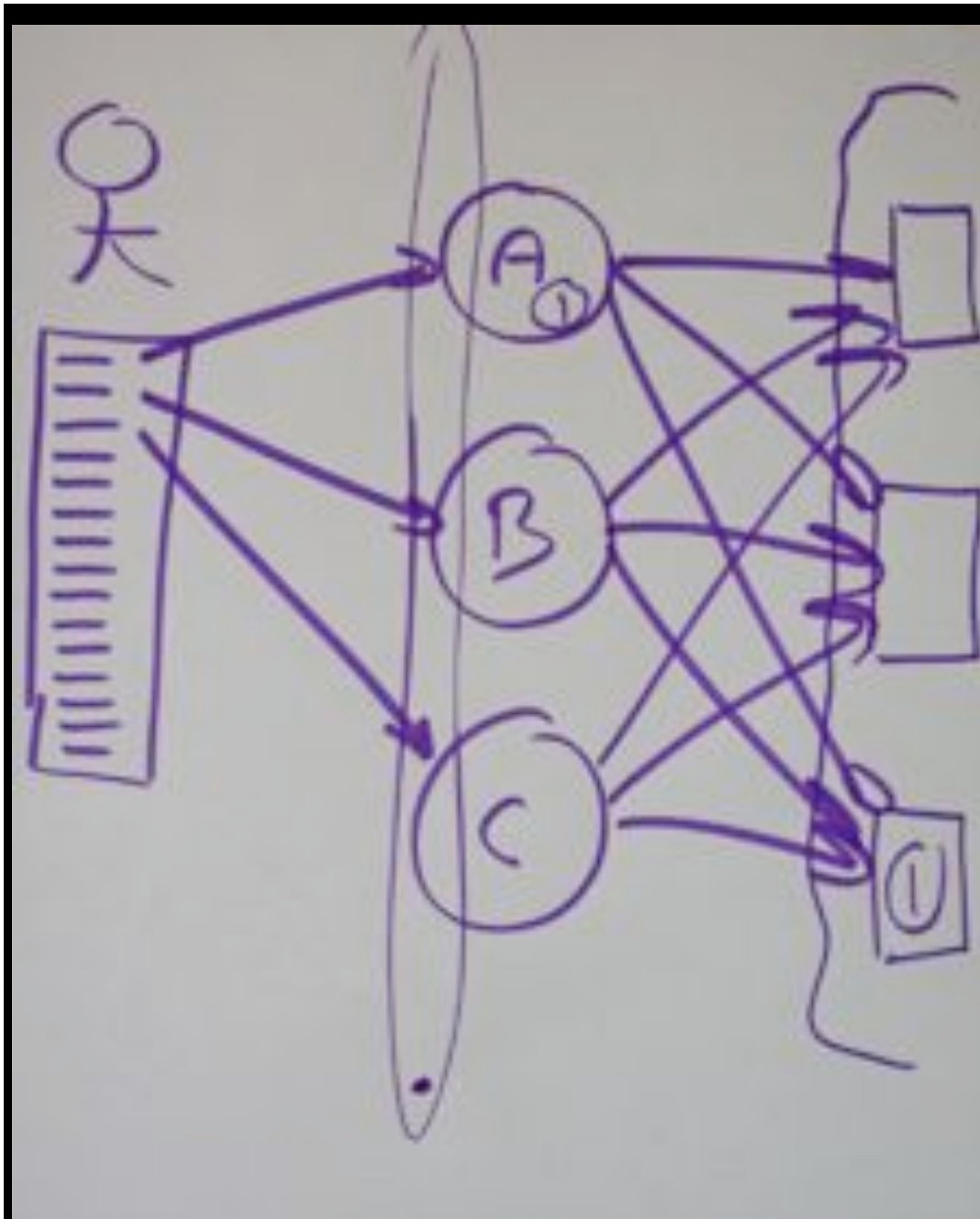
Don't let
specialization
constrain you

Learn new
specializations



Emergent design

Component guardians



Community of
Practice

Architect Facilitator

Same for e.g. test,
ScrumMasters

AAA

BBB

CCC



ABC

ABC

ABC

Transition can often
be done by reforming
teams

What about large
product development?



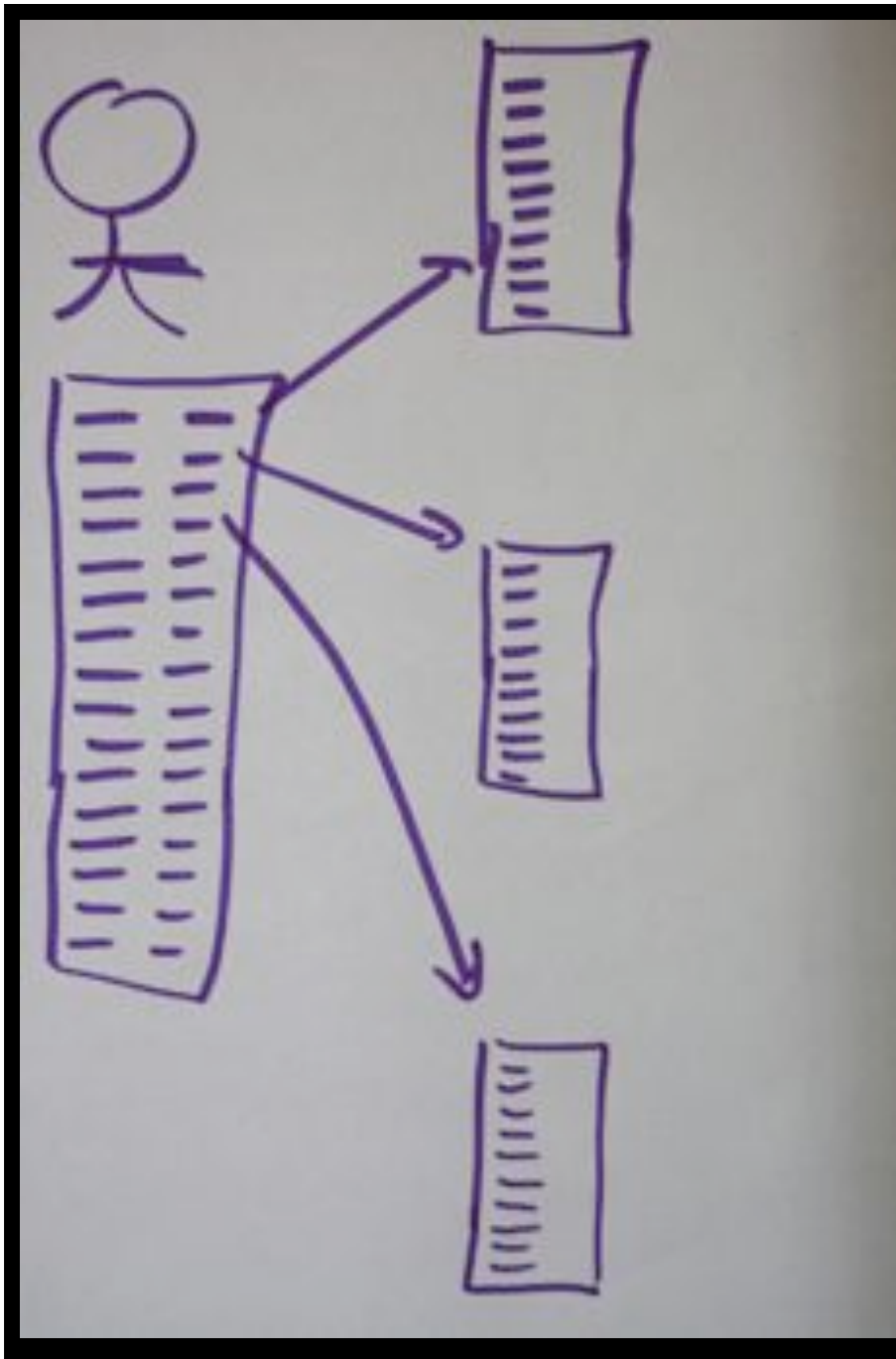
Always have one
product owner and
one product backlog
per product

Or... a group of
products...



Group requirements
into “categories”
called:
“Requirement areas”

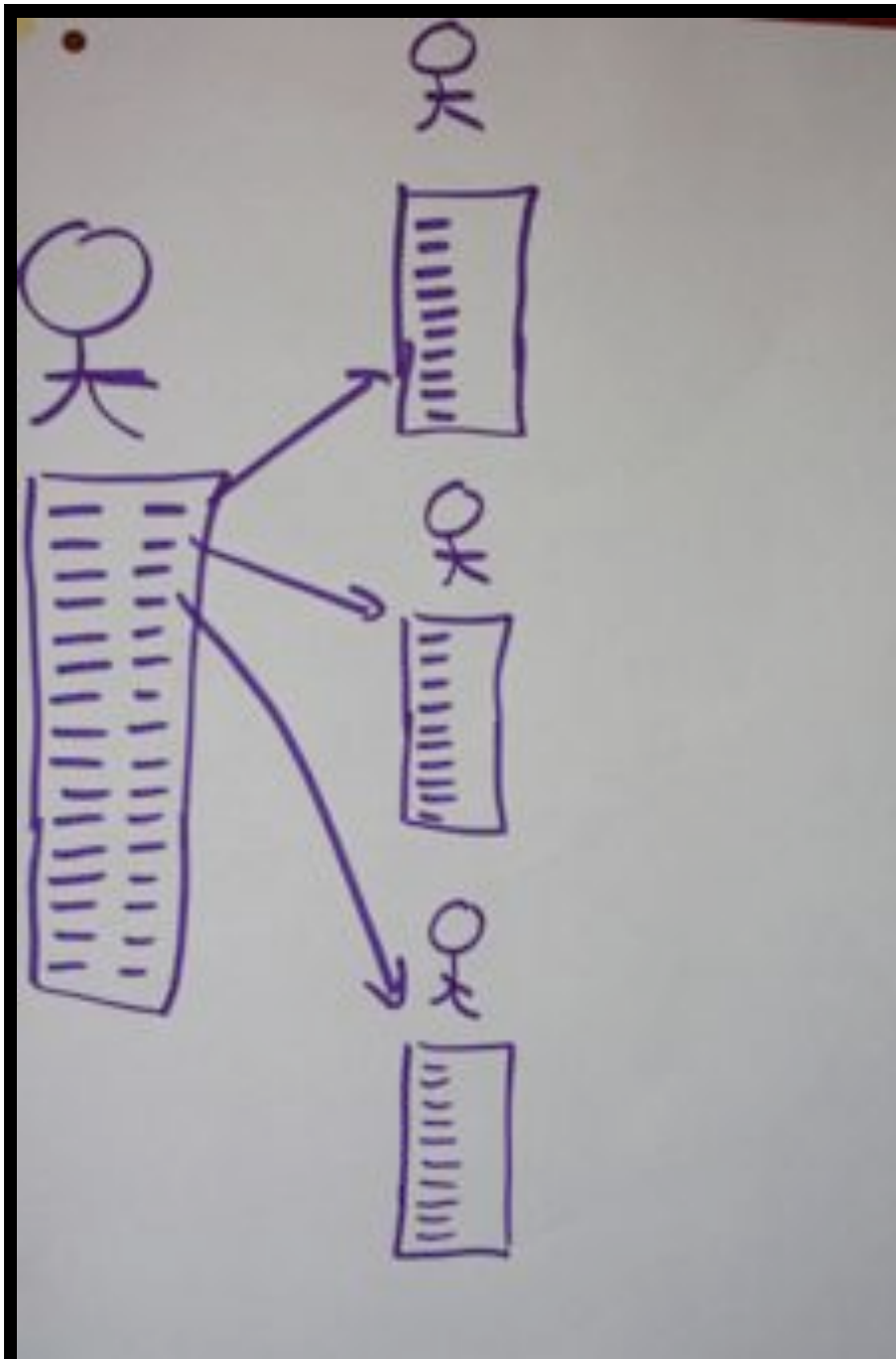
Grouping based on
customer, NOT on
architecture



Create “requirement area backlogs”

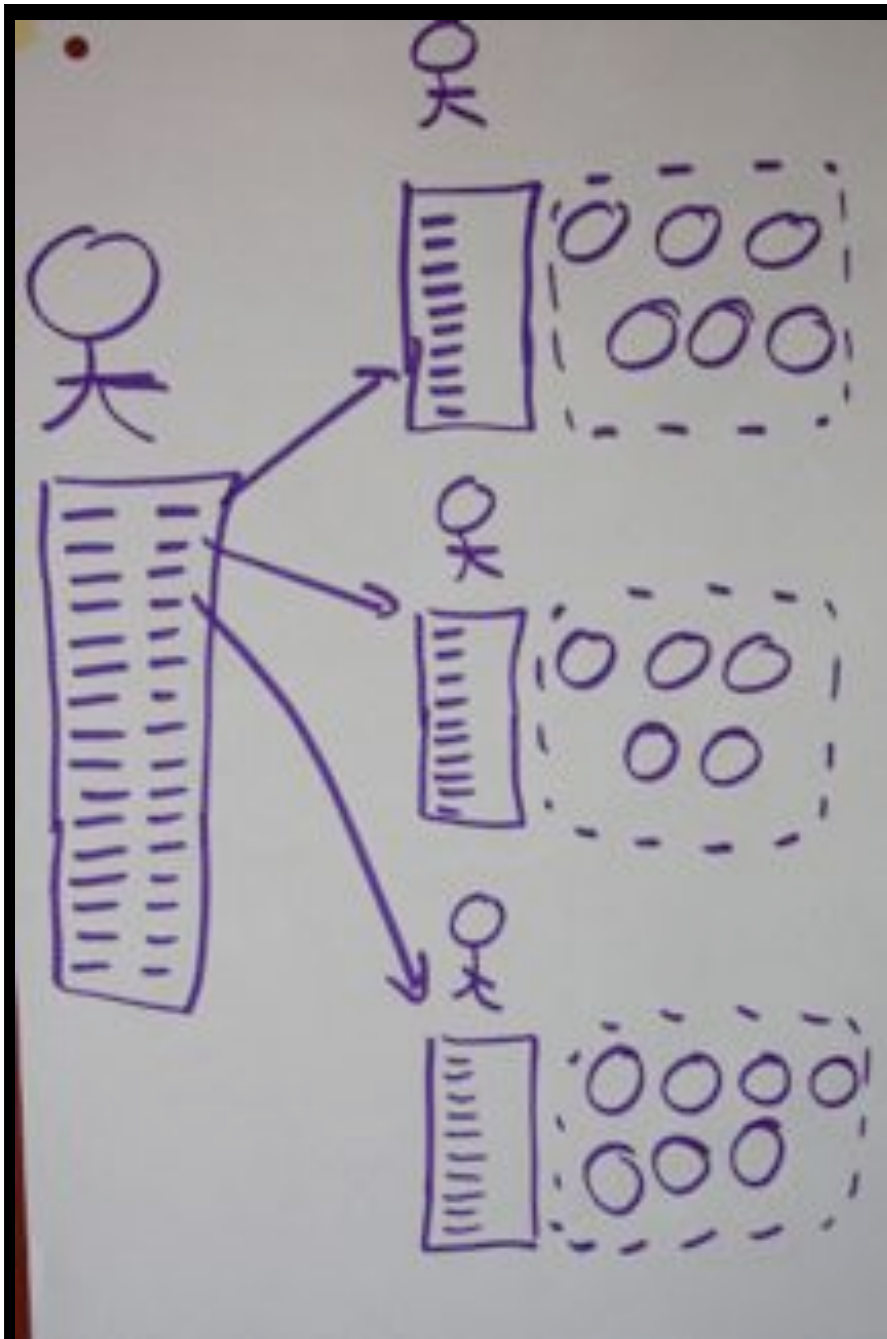
RA backlog is a view on the product backlog

Every PBI maps always to exactly one RA backlog



Every RA has their own “area product owner”

RA product owner specializes in “customer-centric domain”

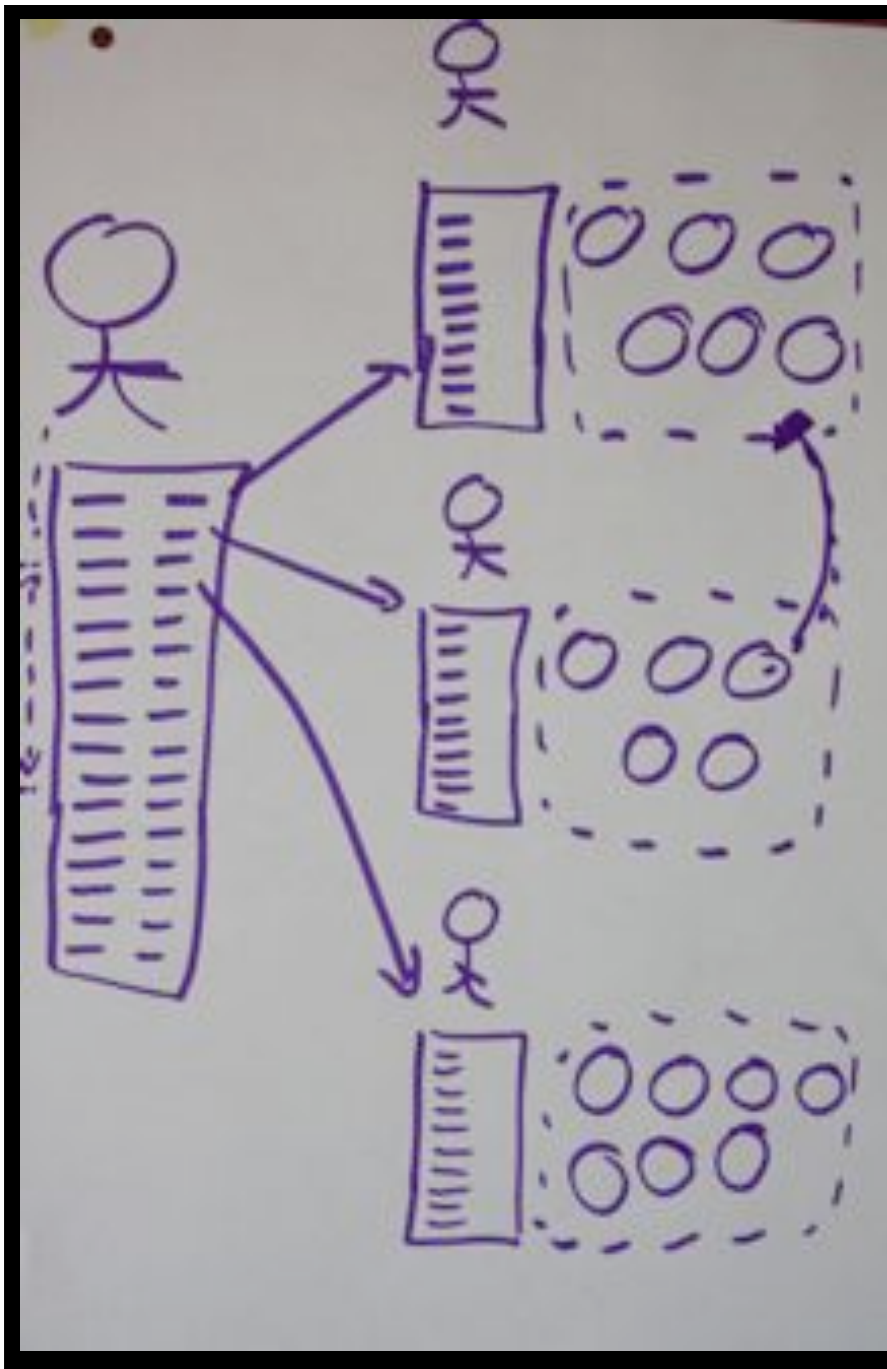


Every RA has a set of feature teams

From 5-10 per RA

Teams specialize in that area

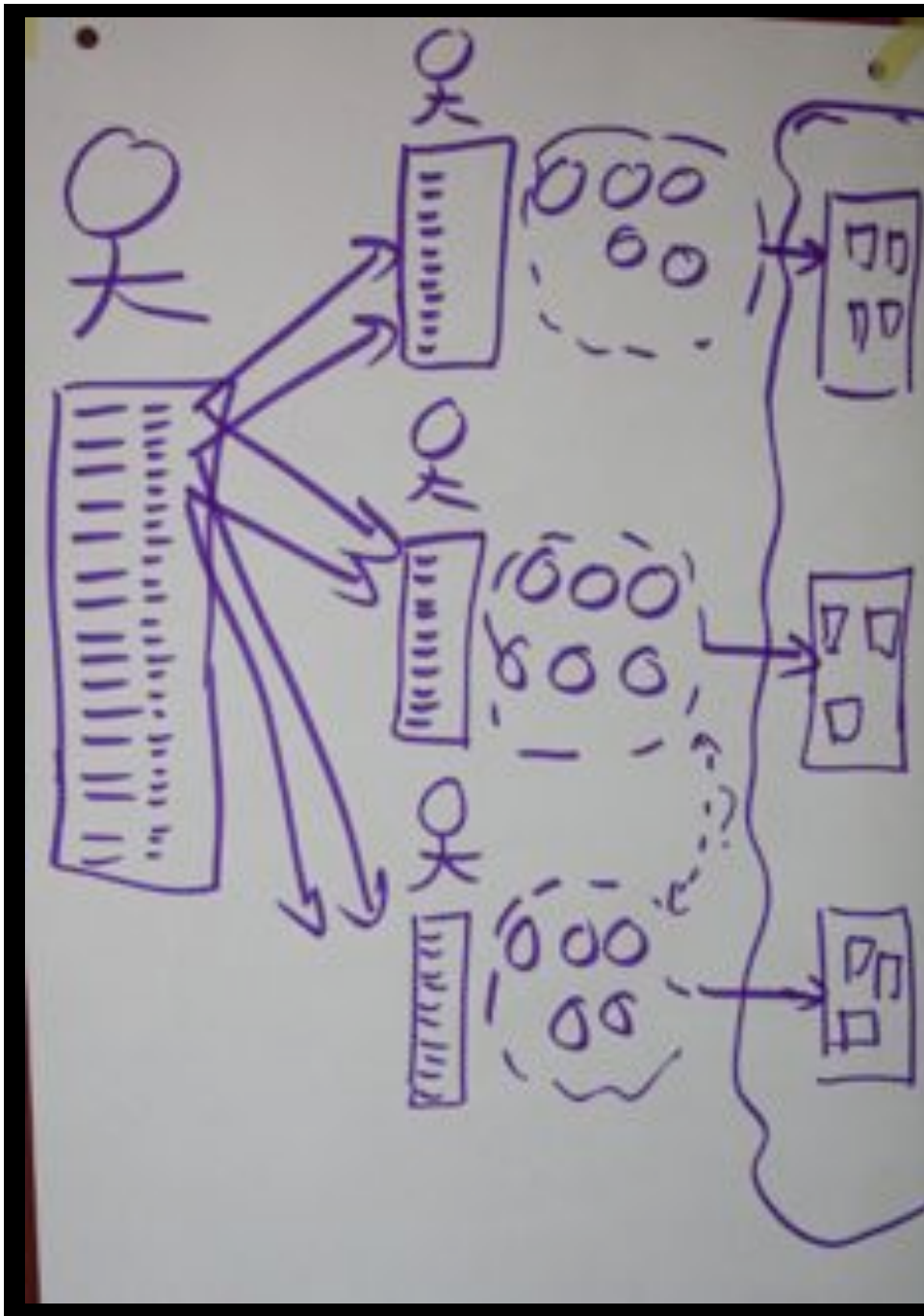
Areas are dynamic over time



Overall PO decides
on moving teams
between areas

Value vs velocity

Transition strategy



“Development areas”
are groupings based
on architecture

Helps transition, has
all drawbacks of
component teams

Questions?