

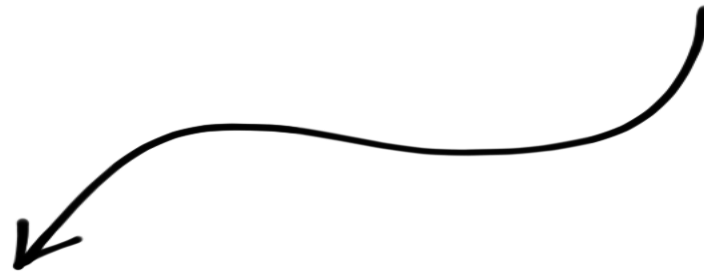
Scrum Applied

Sina Scheuplein

① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

① Motivation



② Scrum at Draeger



③ Scrum and XP

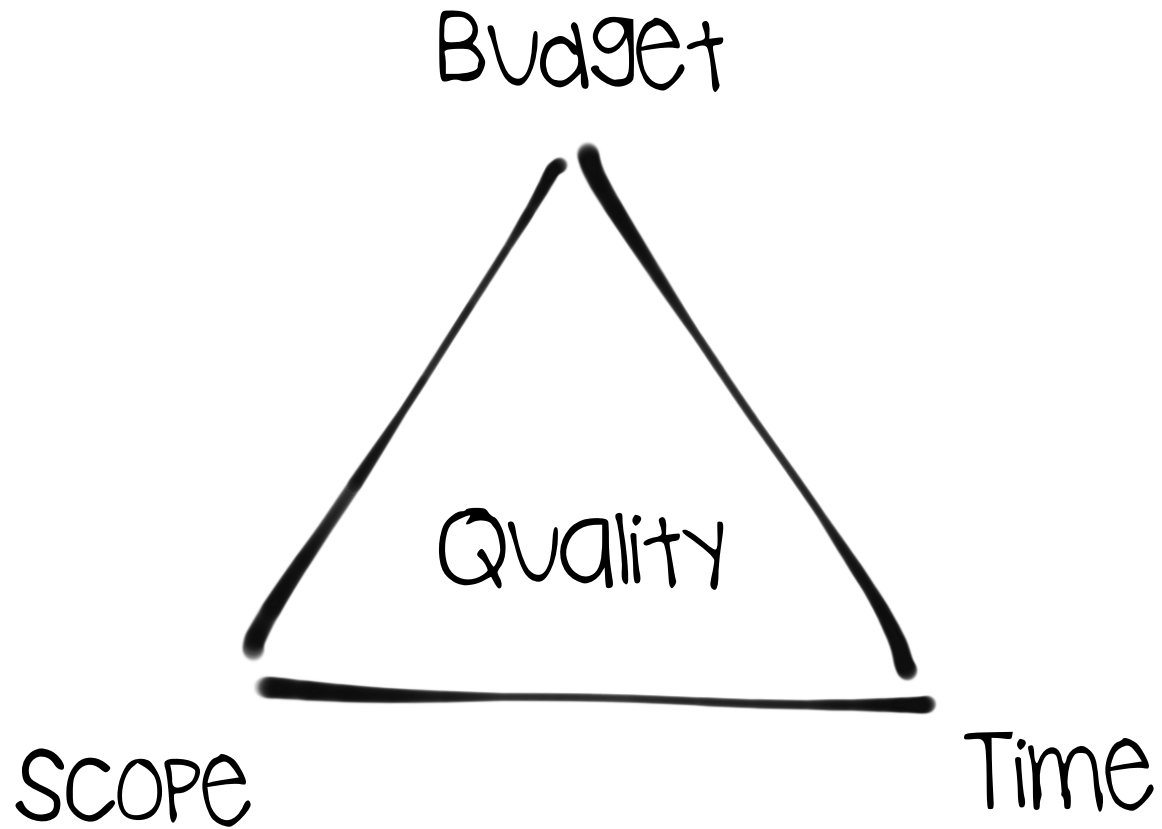


④ Personal Experiences

①

Why do most
software projects fail?

①



①

The Agile Manifesto

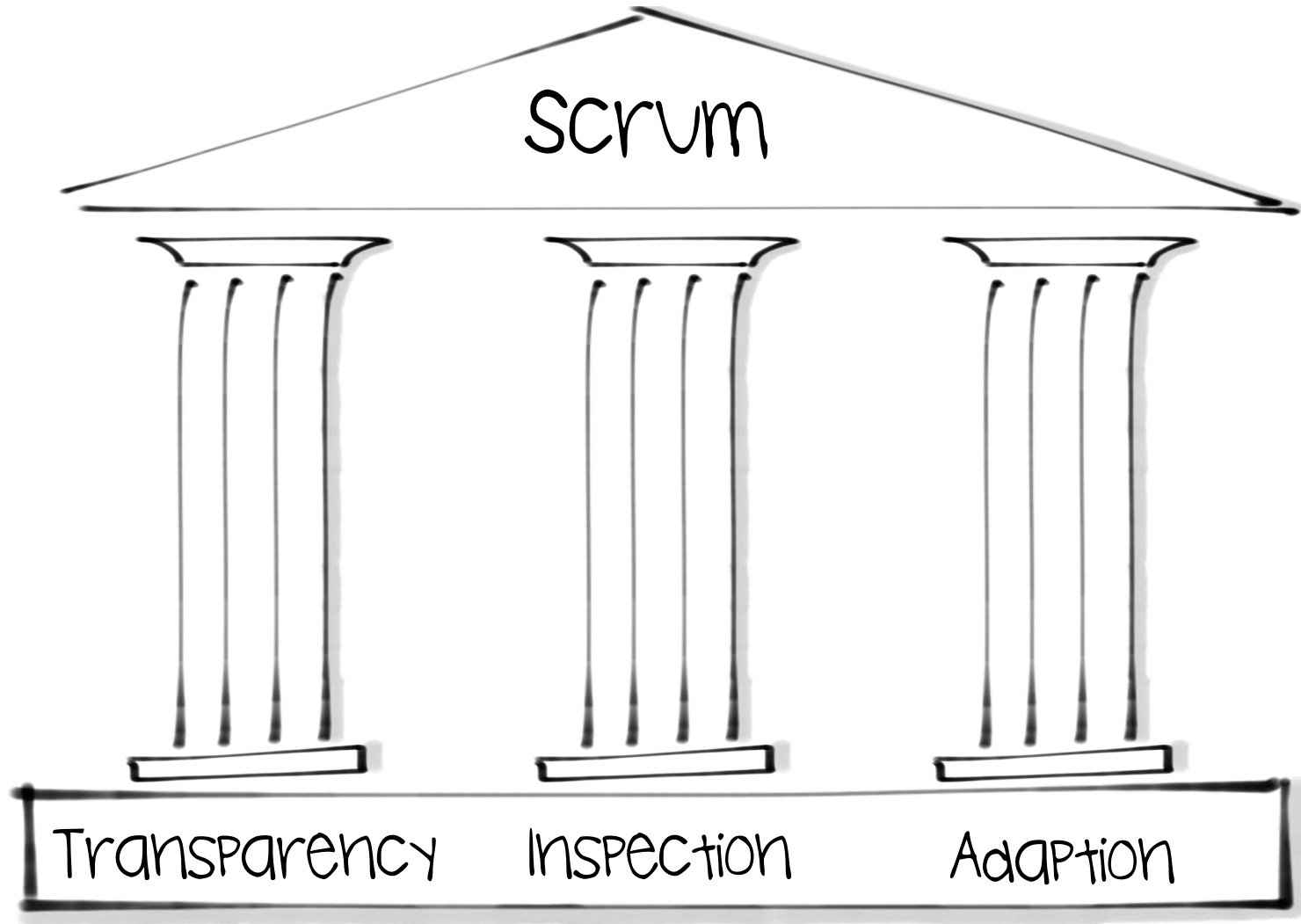
Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

①



① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

① Motivation



② Scrum at Draeger



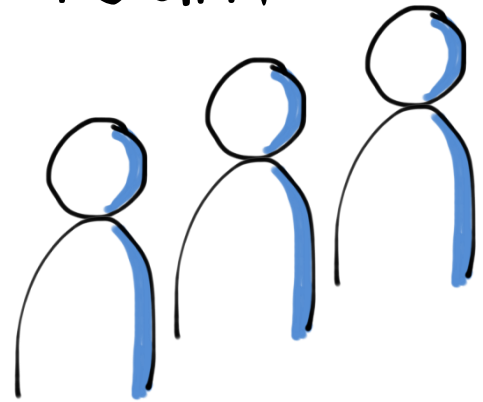
③ Scrum and XP



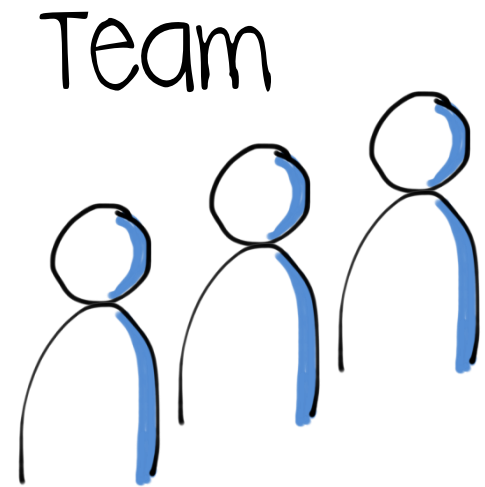
④ Personal Experiences

②

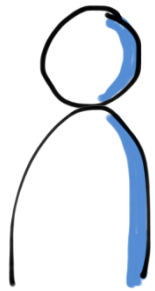
Team



②



②

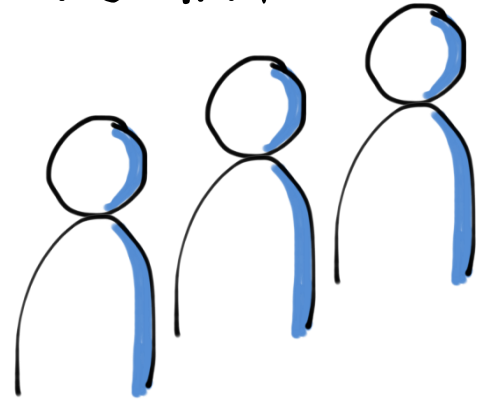


Scrum
Master



Product
Owner

Team



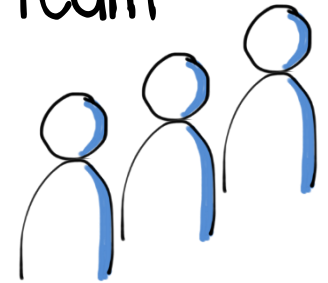
②

 Product Owner

Standup

daily

Team



Sprint



Product Backlog

Sprint Backlog

 Scrum Master

Working Product Increment

Sprint Planning

Sprint Review

Sprint Retrospective

②

User Story

As an anesthesiologist
I would like to see all data
coming from a patient monitor
in order to treat the patient
appropriately.

②

User Story

As an anesthetist WHO
I would like to see all data
coming from a patient monitor
In order to treat the patient
appropriately.

②

User Story

As an anesthesiologist

I would like to see all data WHAT

coming from a patient monitor

In order to treat the patient

appropriately.

②

User Story

As an anesthesiologist
I would like to see all data
coming from a patient monitor
In order to treat the patient
appropriately.

WHY

②

Priority



As an anesthesiologist 5
I would like to see all data
coming from a patient monitor
in order to treat the patient
appropriately.

As a nurse 13
I would like to add a new time
period to an existing staff
member in order to see the
staff assignment to a case.

As an anesthesiologist 3
I would like to add a gas
administration to the flow
chart so that it is
documented properly.

As an anesthesiologist 8
I would like to select the

Estimation

②

Product Owner



Product Backlog



Sprint Backlog



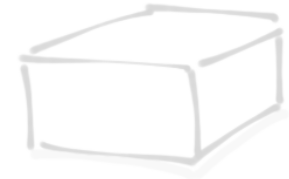
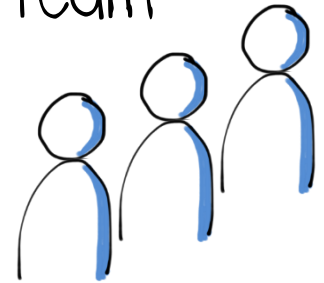
Standup

daily

Sprint

Scrum Master

Team



Working Product Increment

Sprint Planning

Sprint Review

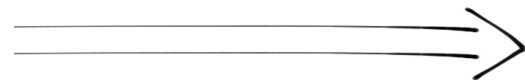
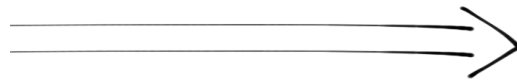
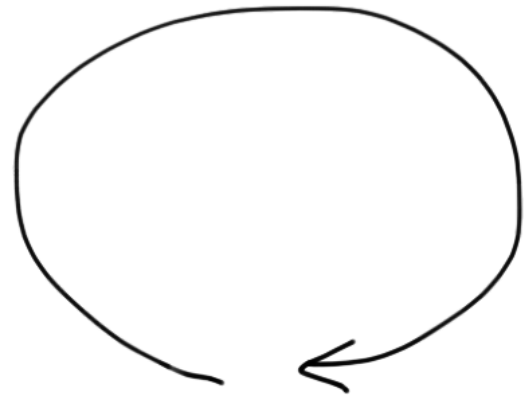
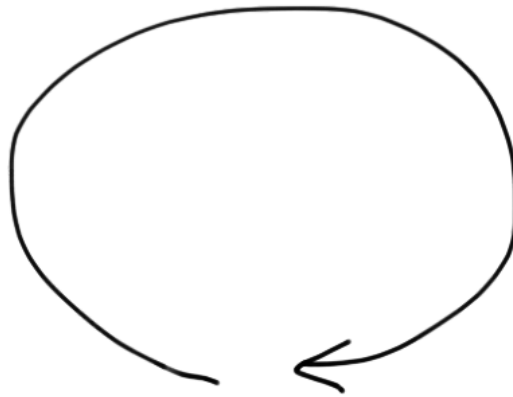
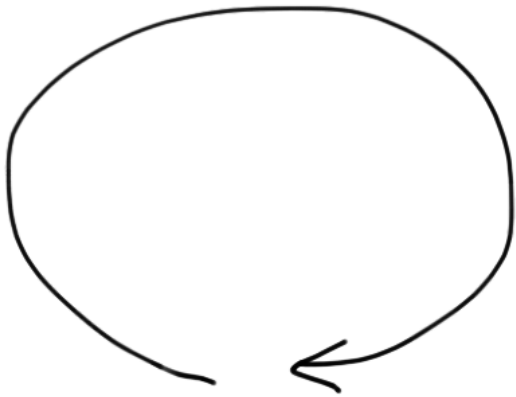
Sprint Retrospective

②

Sprint 1

Sprint 2

Sprint 3



2 weeks

2 weeks

2 weeks

②

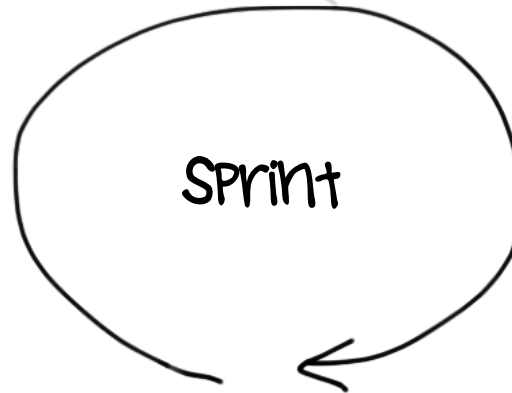
Product Owner



Product Backlog



Sprint Backlog

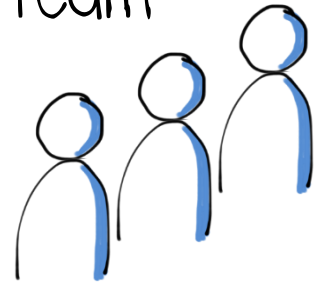


Standup



Scrum Master

Team



Working Product Increment

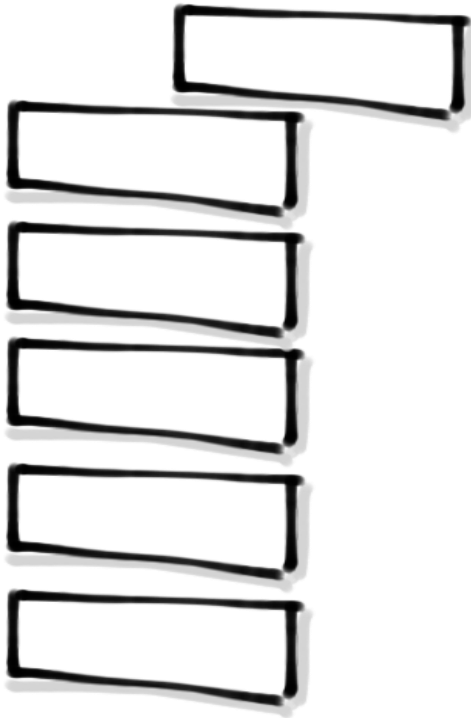
Sprint Planning

Sprint Review

Sprint Retrospective

②

Planning



Product Backlog



Sprint Backlog

②

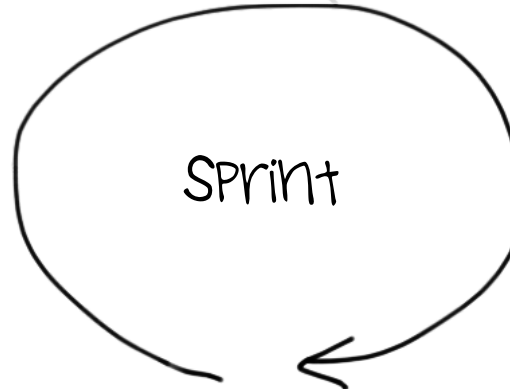
Product Owner



Product Backlog



Sprint Backlog

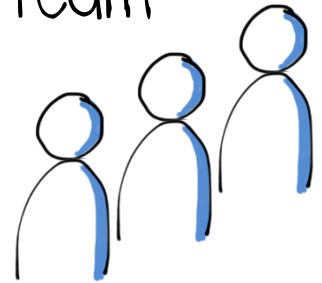


Standup

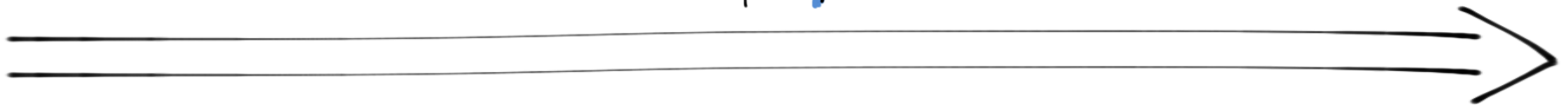


Scrum Master

Team



Working Product Increment



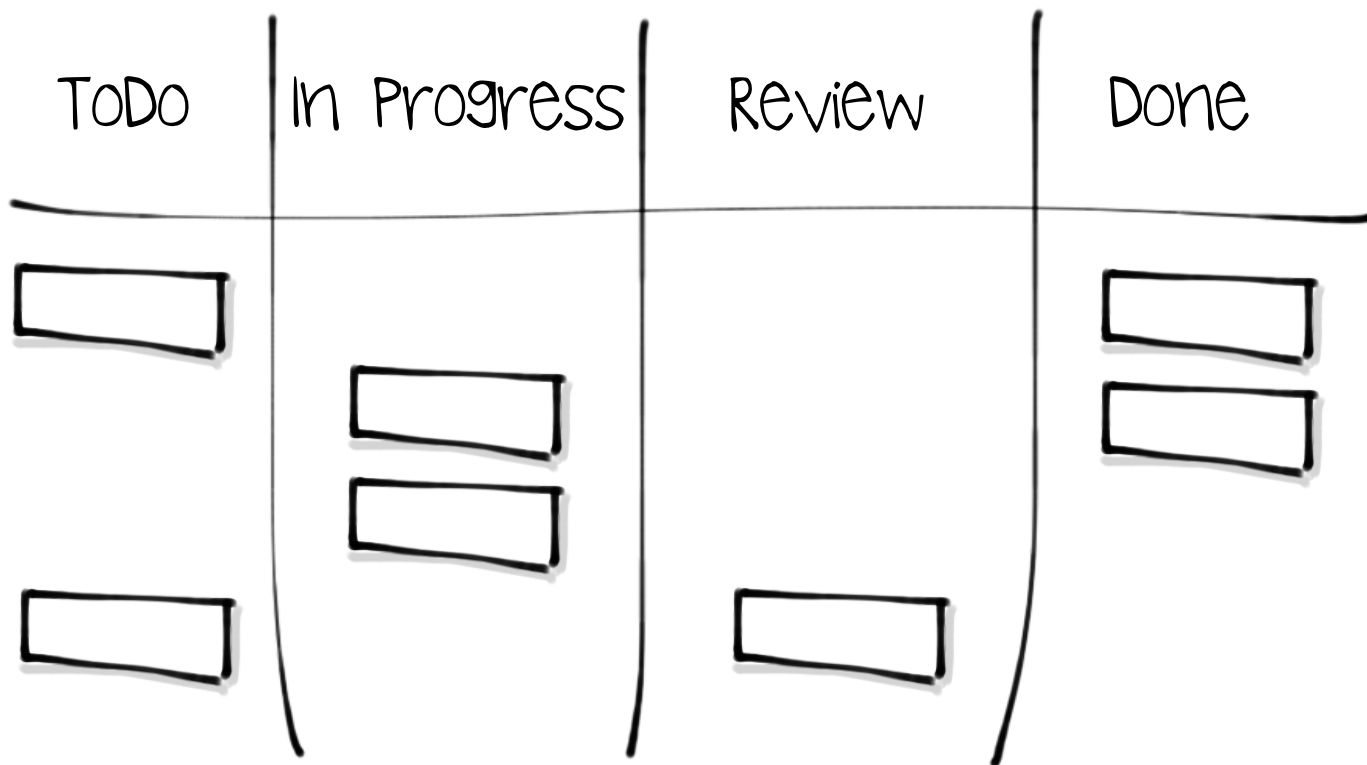
Sprint Planning

Sprint Review

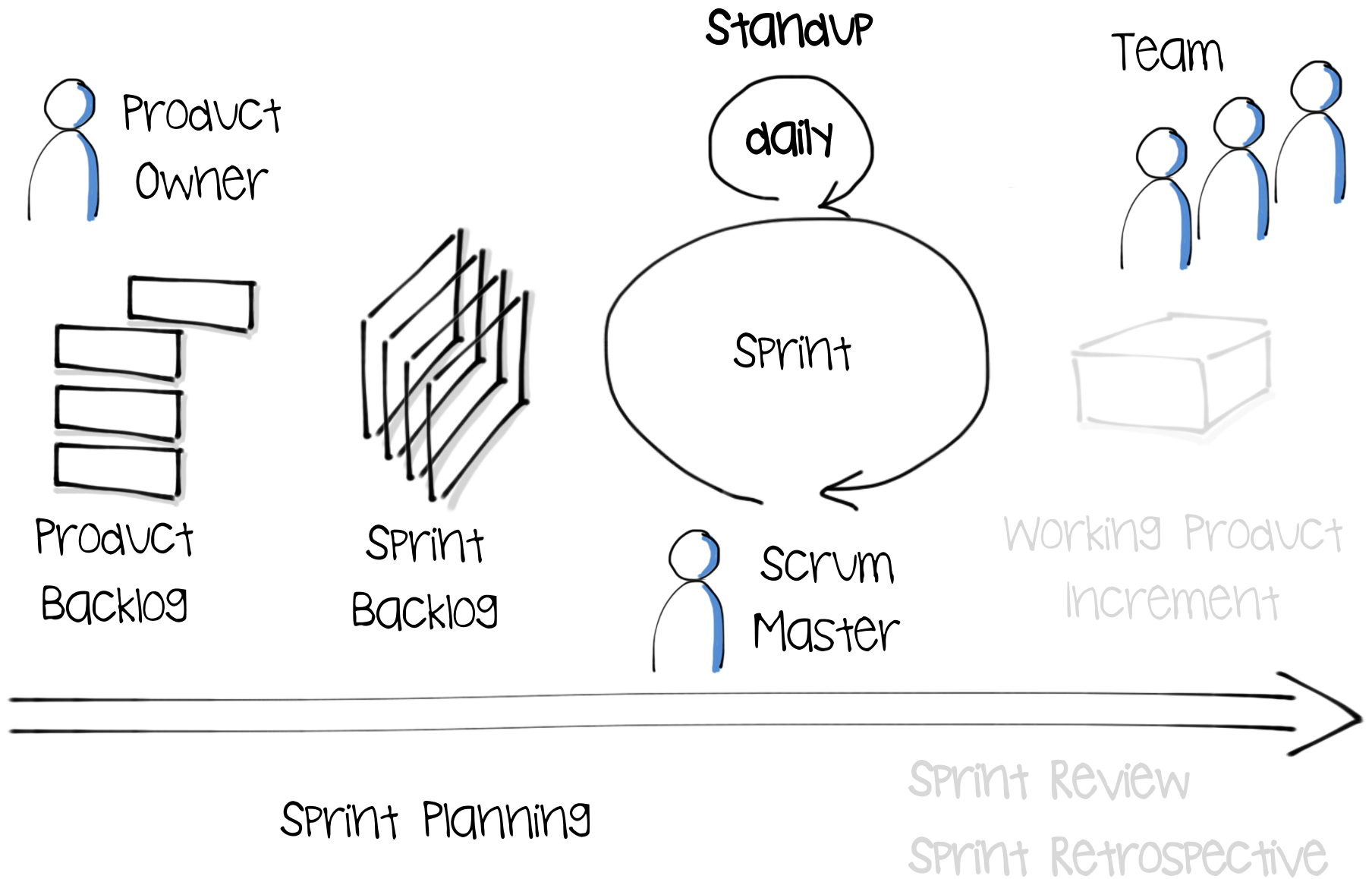
Sprint Retrospective

②

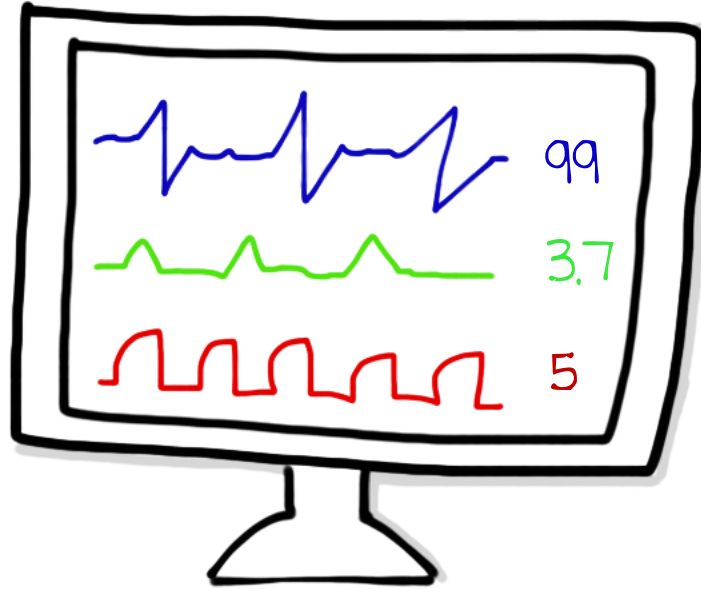
Transparency



②



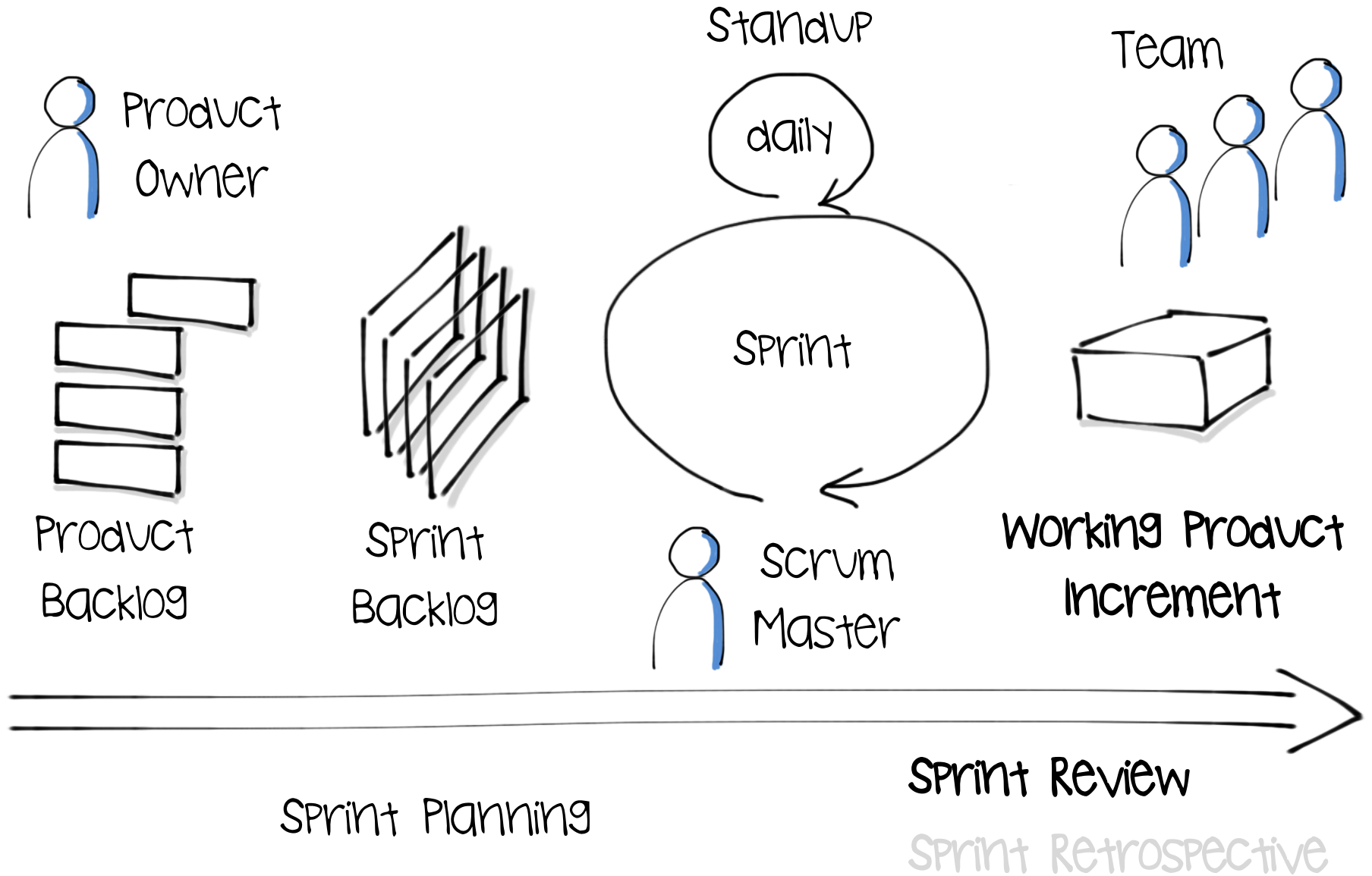
②



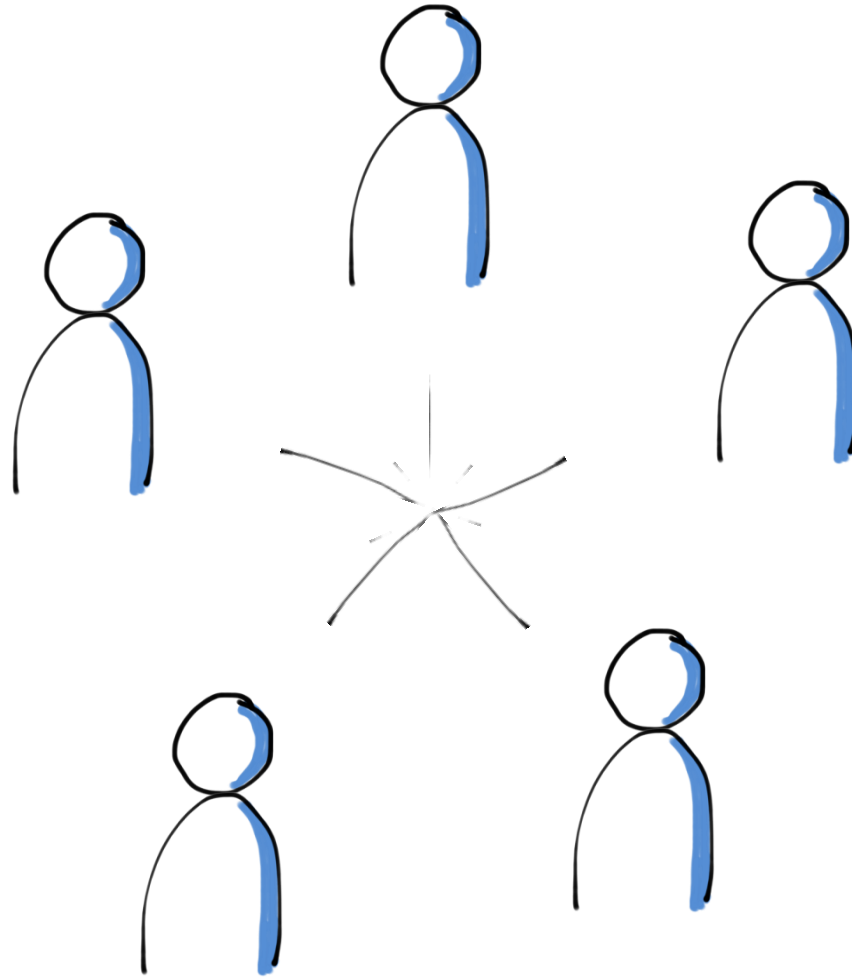
Working Product
Increment

Inspect and Adapt — Product

2

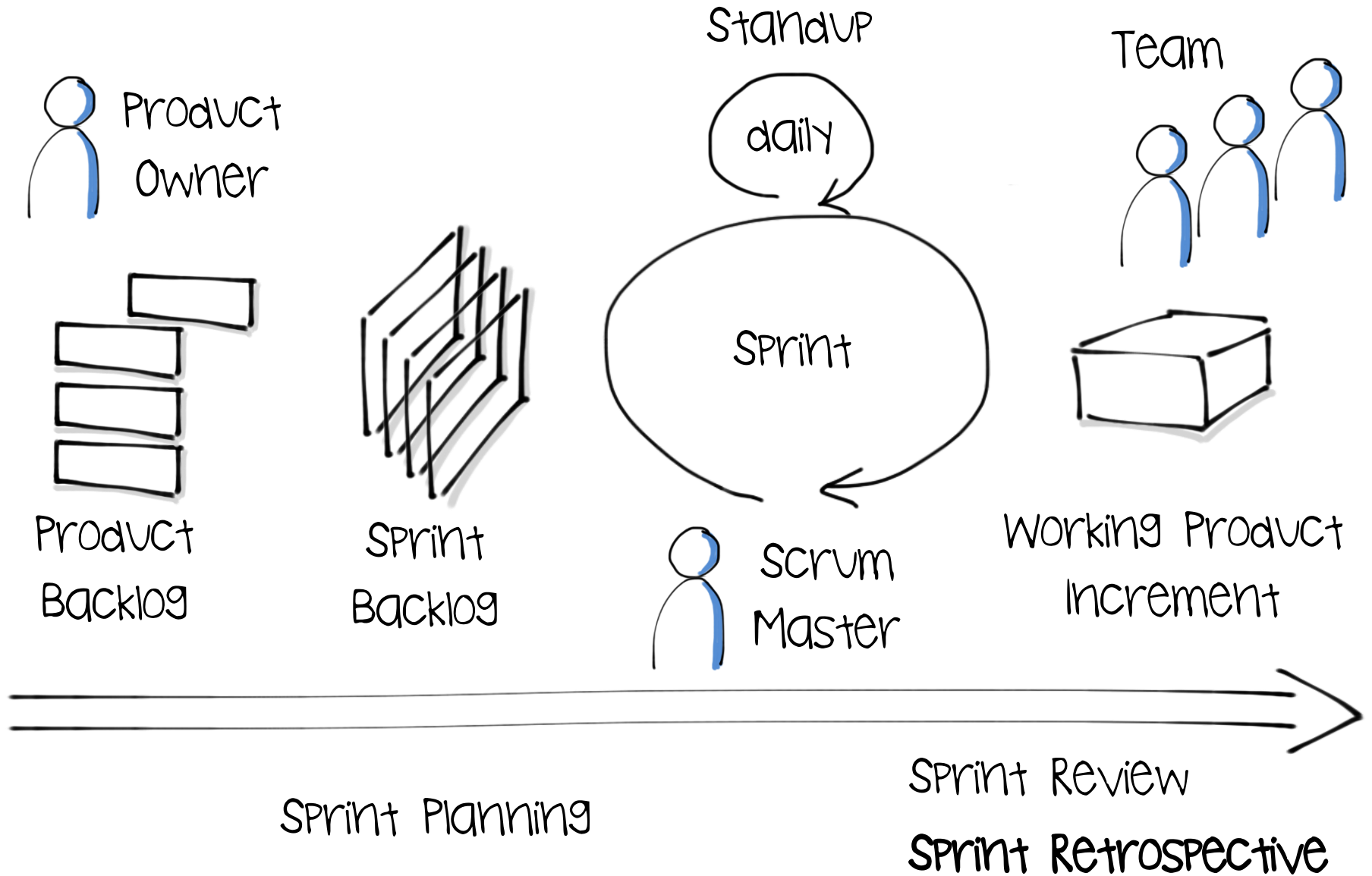


②



INSPECT and ADAPT — Work Mode

②



① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

③

"You don't see high performing Scrum teams without XP engineering practices. It is difficult to scale XP teams without Scrum and Scrum solves the management interface issues for XP. Be careful about doing pieces of anything and calling it Agile."

Ron Jeffries, Jeff Sutherland

③

Collective Code Ownership

```
DataSource dataSource ;
public DataSource getDataSource(){
    return this.dataSource;
}

public void setDataSource(DataSource dataSource){
    this.dataSource = dataSource;
}

@Override
public boolean isValidUser(String username, String password){
    String query = "Select count(1) from user where username = ? and password = ?";

    PreparedStatement pstmt = dataSource.getConnection().prepareStatement(query);
    pstmt.setString(1, username);
    pstmt.setString(2, password);
    ResultSet resultSet = pstmt.executeQuery();
    if(resultSet.next())
        return (resultSet.getInt(1) > 0);
    else
        return false;
}
```

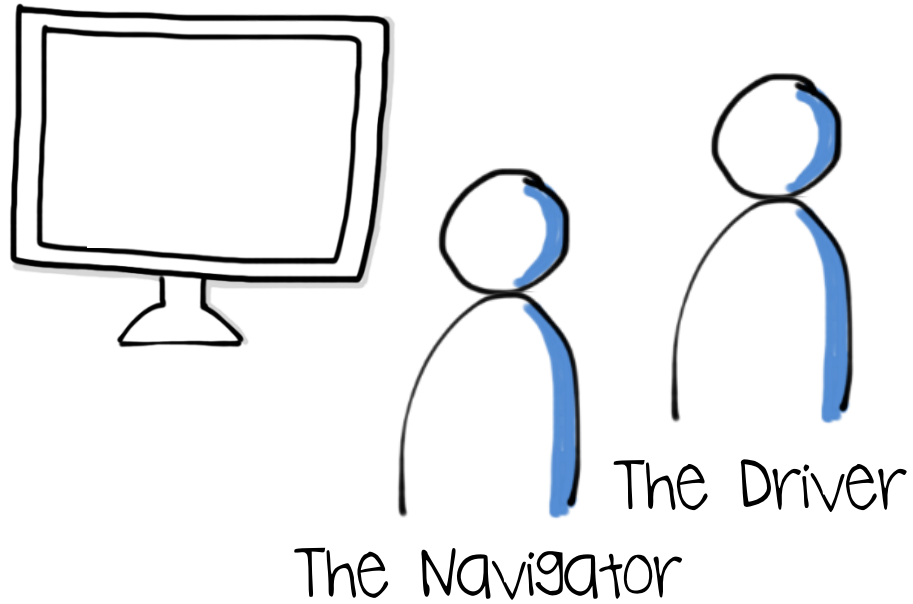
```
DataSource dataSource ;
public DataSource getDataSource(){
    return this.dataSource;
}

@Override
public boolean isValidUser(String usr, String pw){
    String query = "Select count(1) from user where username = ? and password = ?";

    PreparedStatement pstmt = dataSource.getConnection().prepareStatement(query);
    pstmt.setString(1, usr);
    pstmt.setString(2, pw);
    ResultSet resultSet = pstmt.executeQuery();
    if(resultSet.next())
        return (resultSet.getInt(1) > 0);
    else
        return false;
}
```

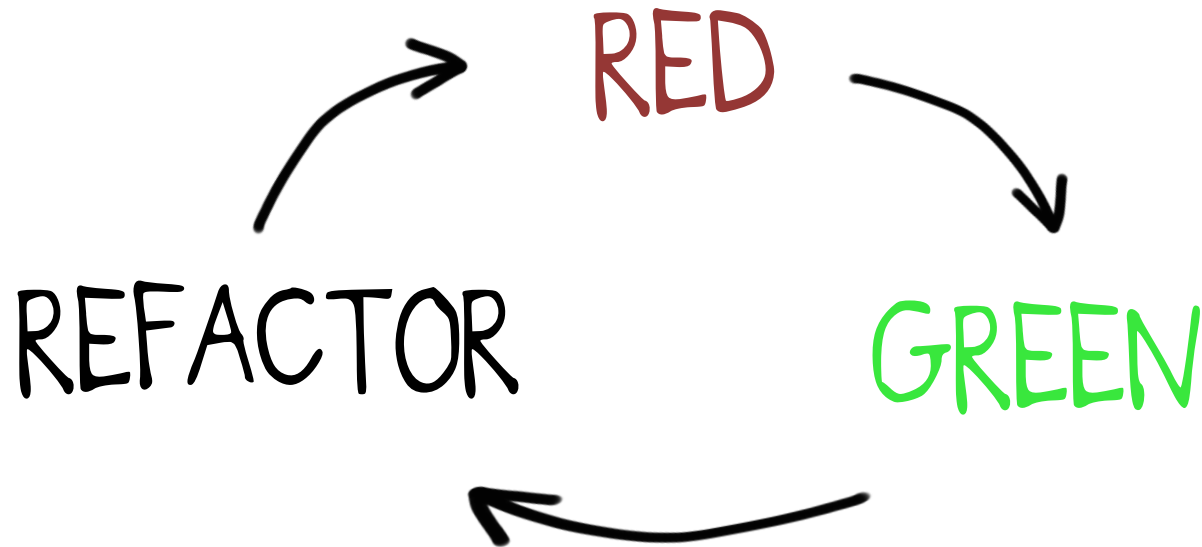
③

Pair Programming



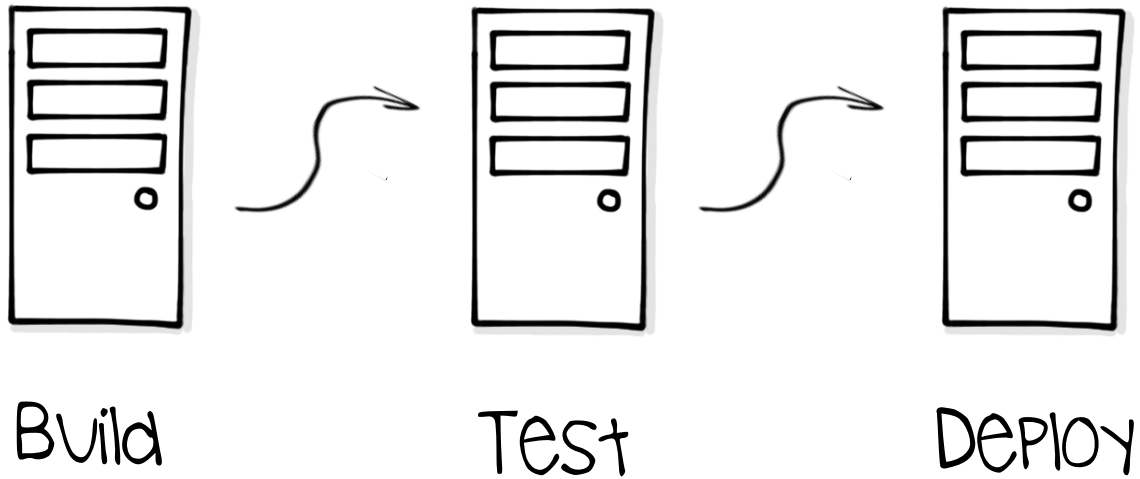
③

Test Driven Development



③

Continuous Integration



① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

① Motivation



② Scrum at Draeger



③ Scrum and XP



④ Personal Experiences

④


Being a Scrum Master
for 3 years now...

④


Scrum ...

④

... goes beyond the Scrum team.


A simple stick figure icon representing a person, drawn with black outlines and a blue shadow on the right side.

Scrum
Master

A simple stick figure icon representing a person, drawn with black outlines and a blue shadow on the right side.

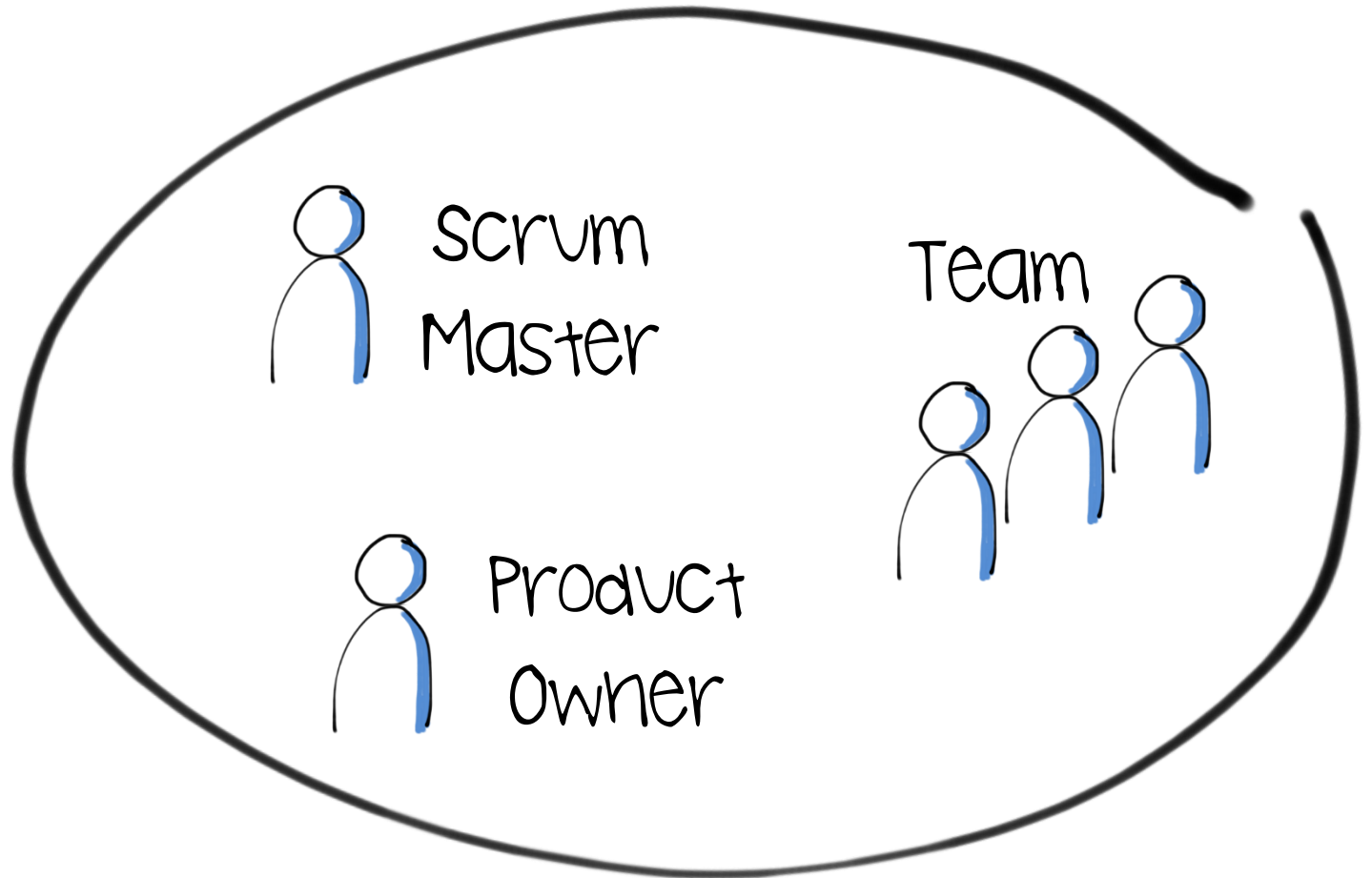
Product
Owner

Team

Three simple stick figure icons representing a team, drawn with black outlines and blue shadows on the right side, arranged in a slightly overlapping cluster.

④

... goes beyond the Scrum team.



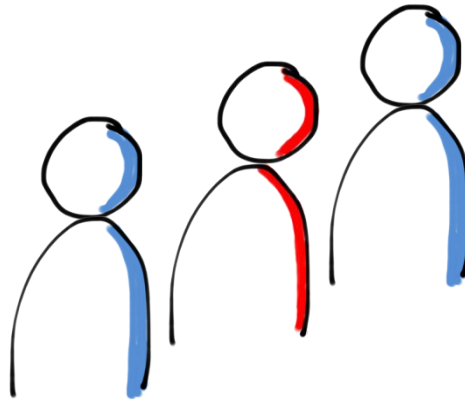
The SOUP

④

A cross-functional team ...

④

... may change its composition during product development lifecycle.

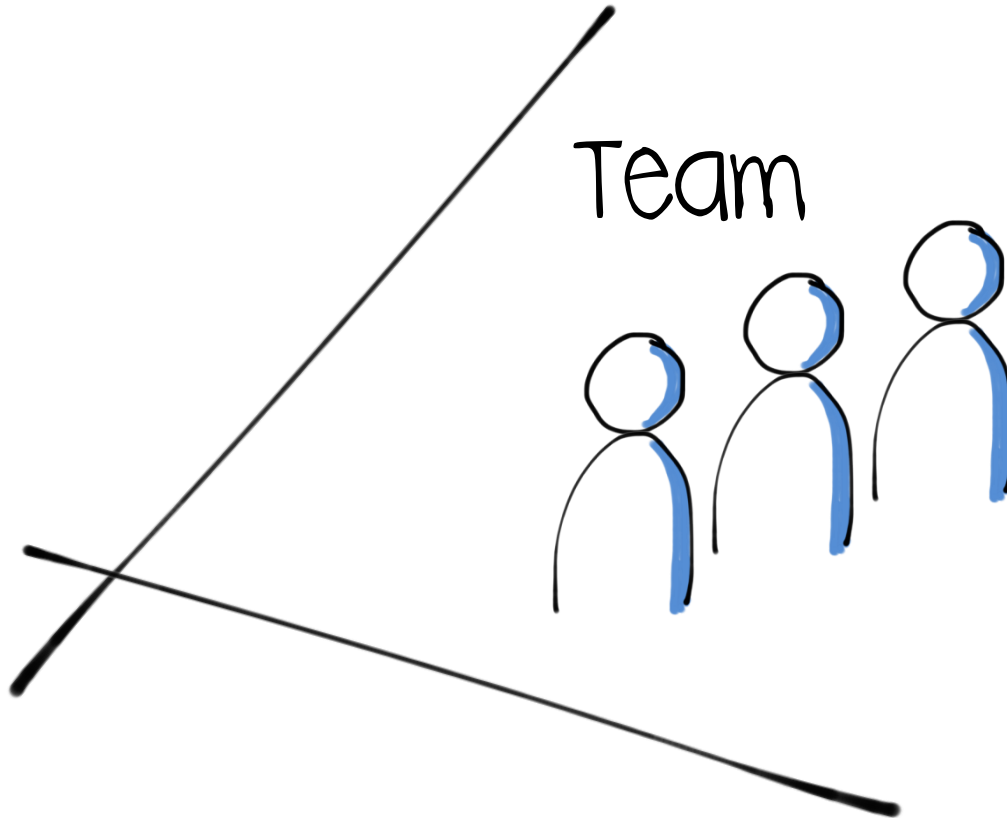


④

A self-organizing team ...

④

... needs boundaries.

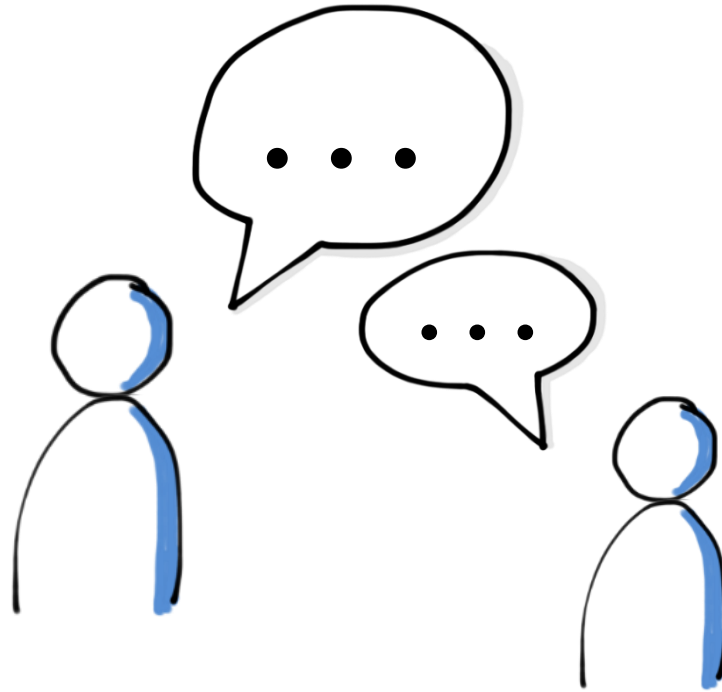


④

Agile development...

④

... is more culture than process.



④

Team composition ...

④

... is mainly about soft skills.



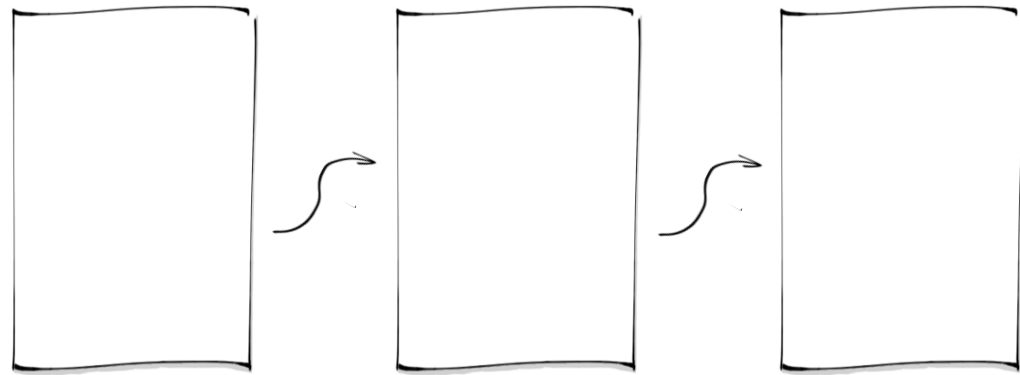
④

Iterative development
and
Incremental development ...

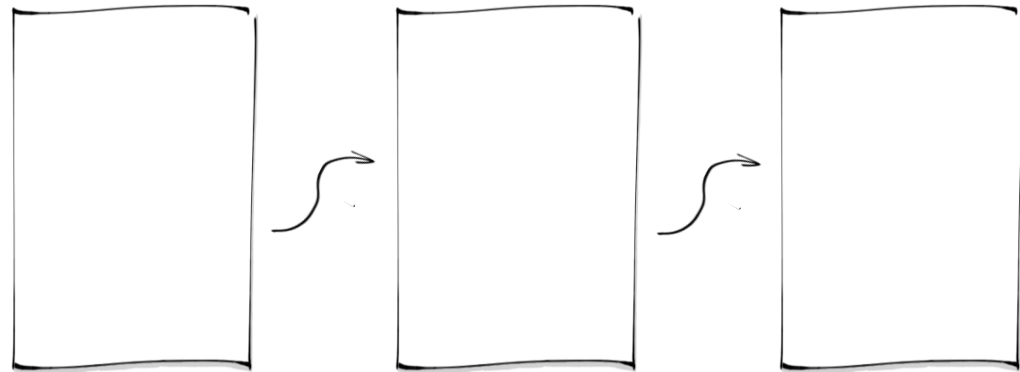
④

... have to go hand in hand.

Incremental



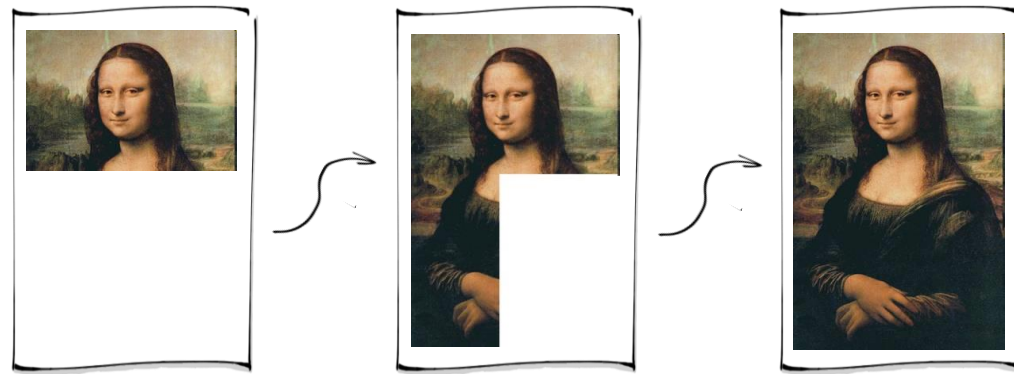
Iterative



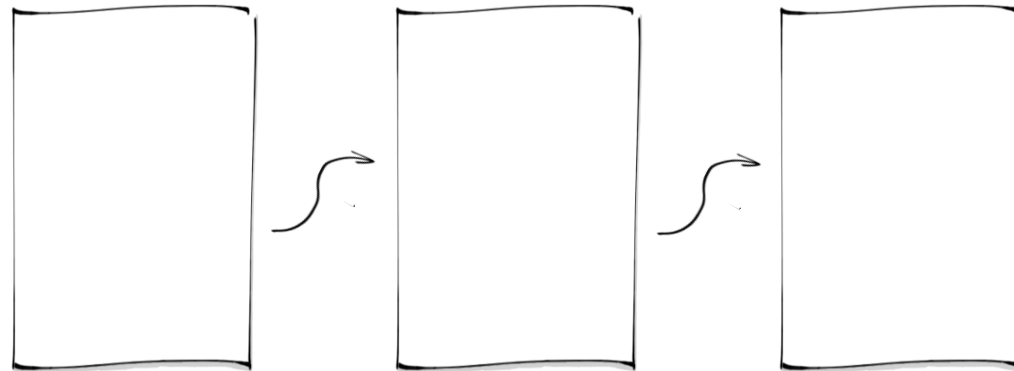
④

... have to go hand in hand.

Incremental



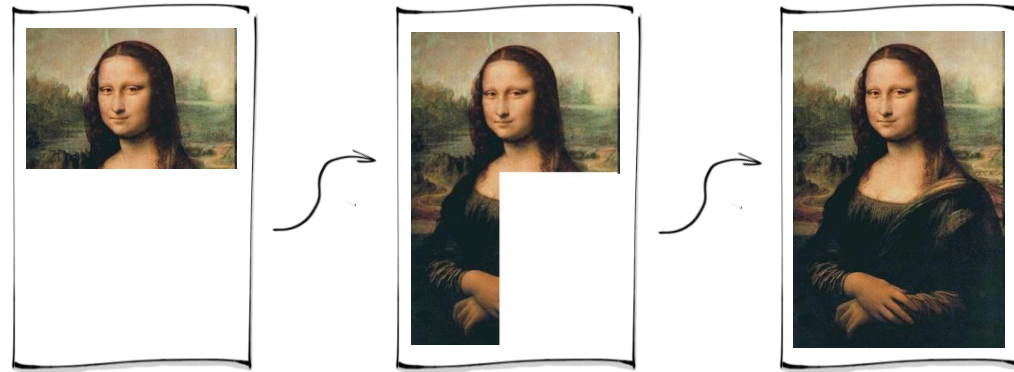
Iterative



④

... have to go hand in hand.

Incremental



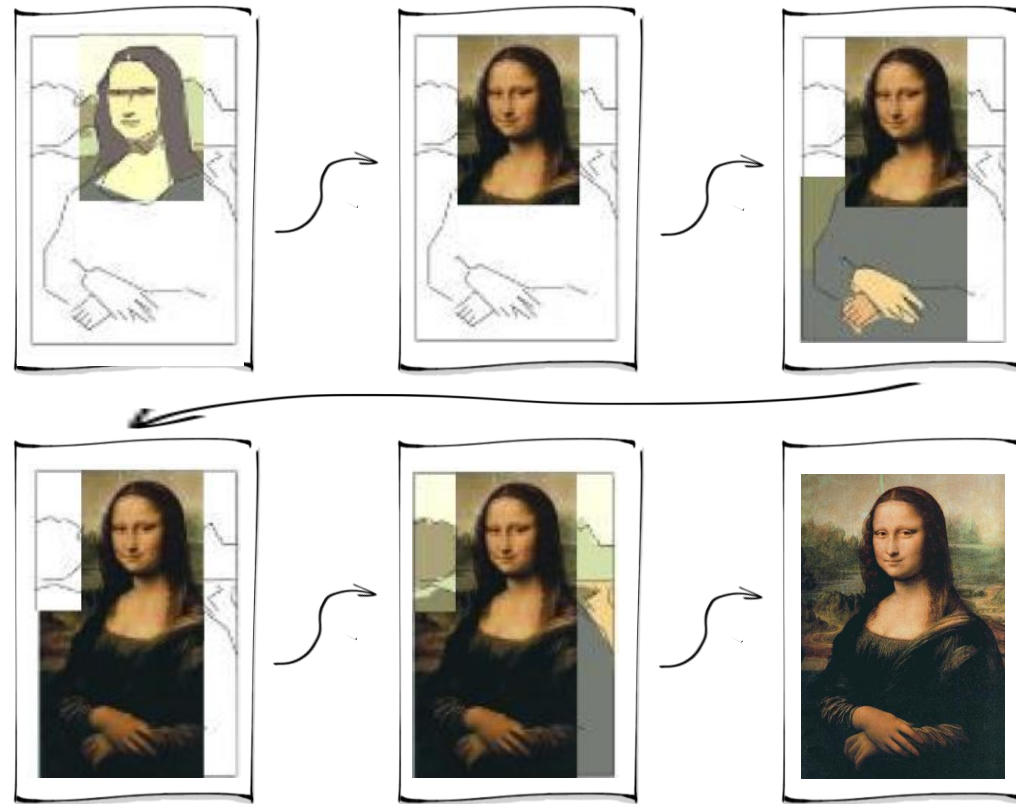
Iterative



④

... have to go hand in hand.

Incremental
and
Iterative



④

Teams ...

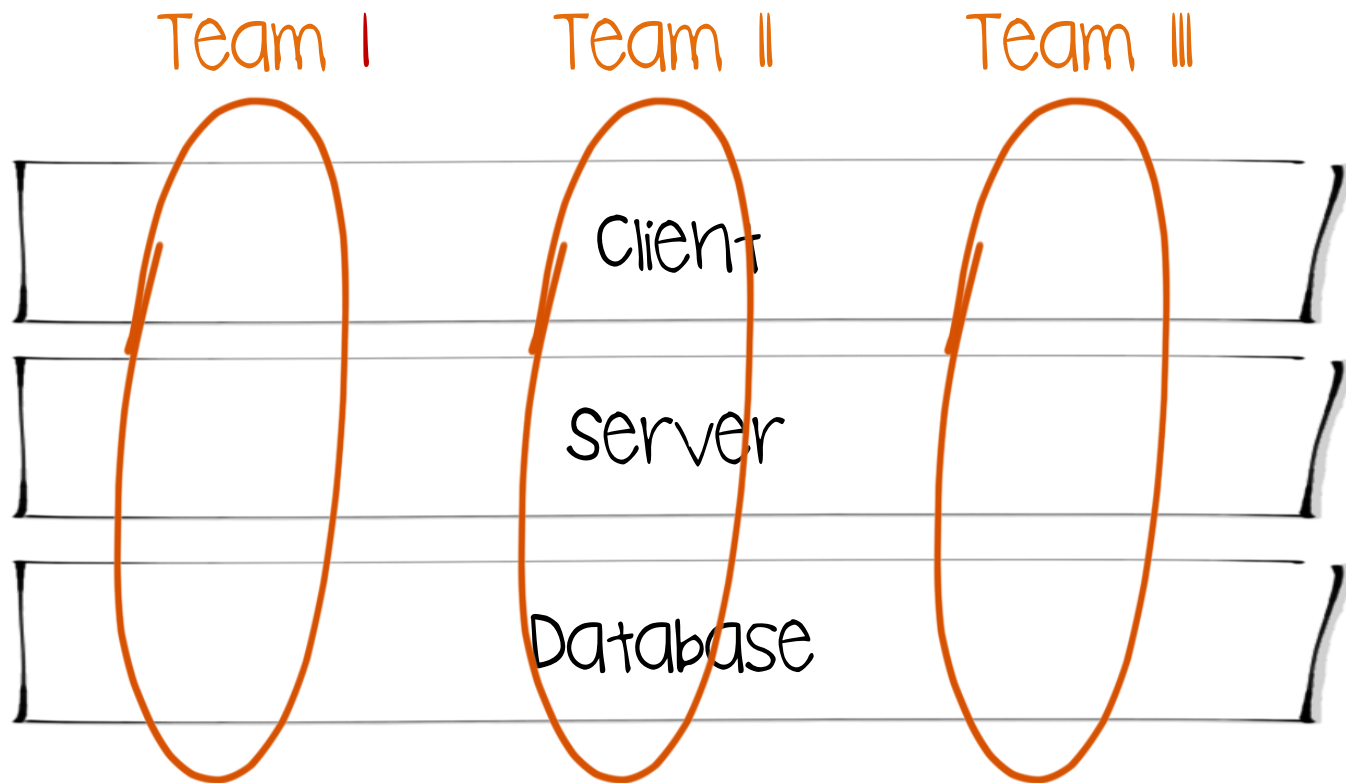
④

... should be divided across components



④

... should be divided across components



④

Doing Agile does not scale ...

④

... being agile does.

Team



Team



Team



④

A good PROCESS ...

④

... does not prevent you from
delivering crappy code.

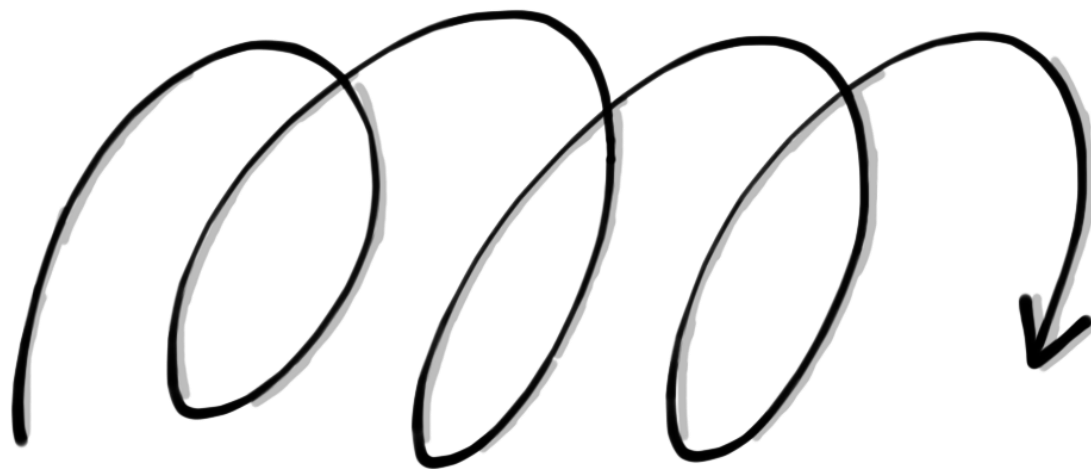


④

If it hurts ...

④

... do it more often

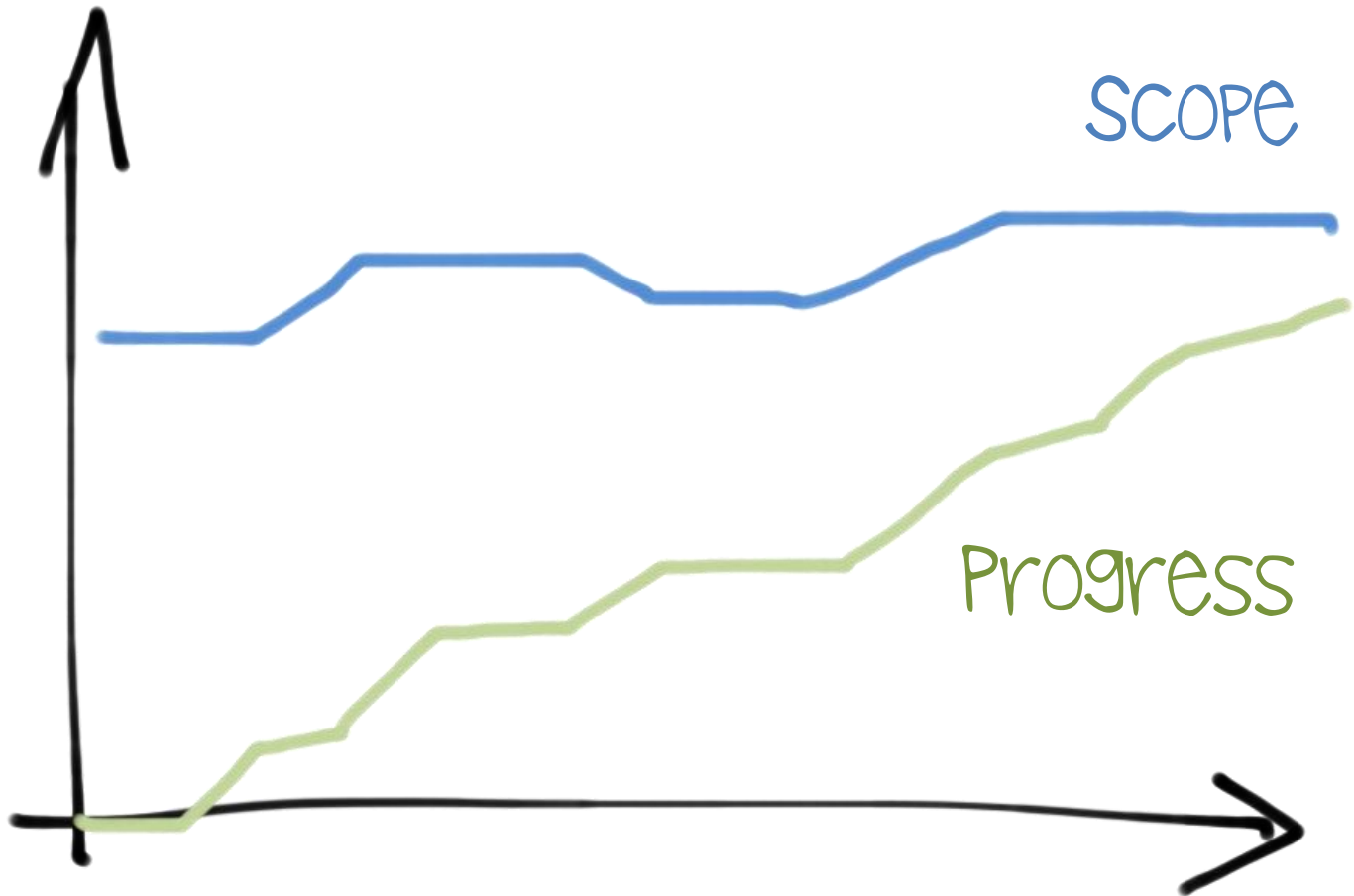


④

Transparency ...

④

... requires trust!

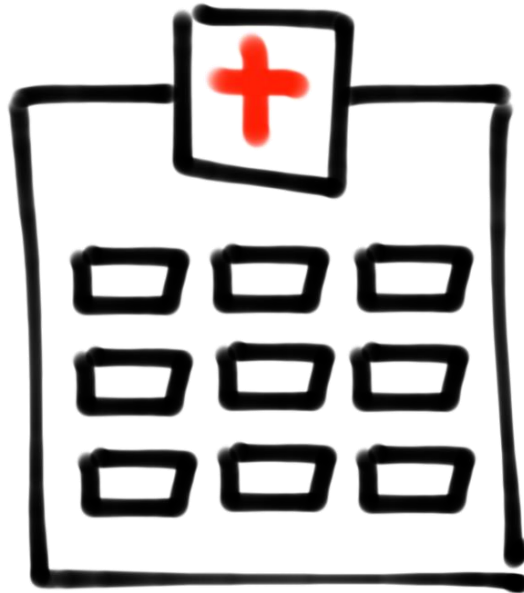


④

A good Product Owner ...

④

...does not replace close customer collaboration!

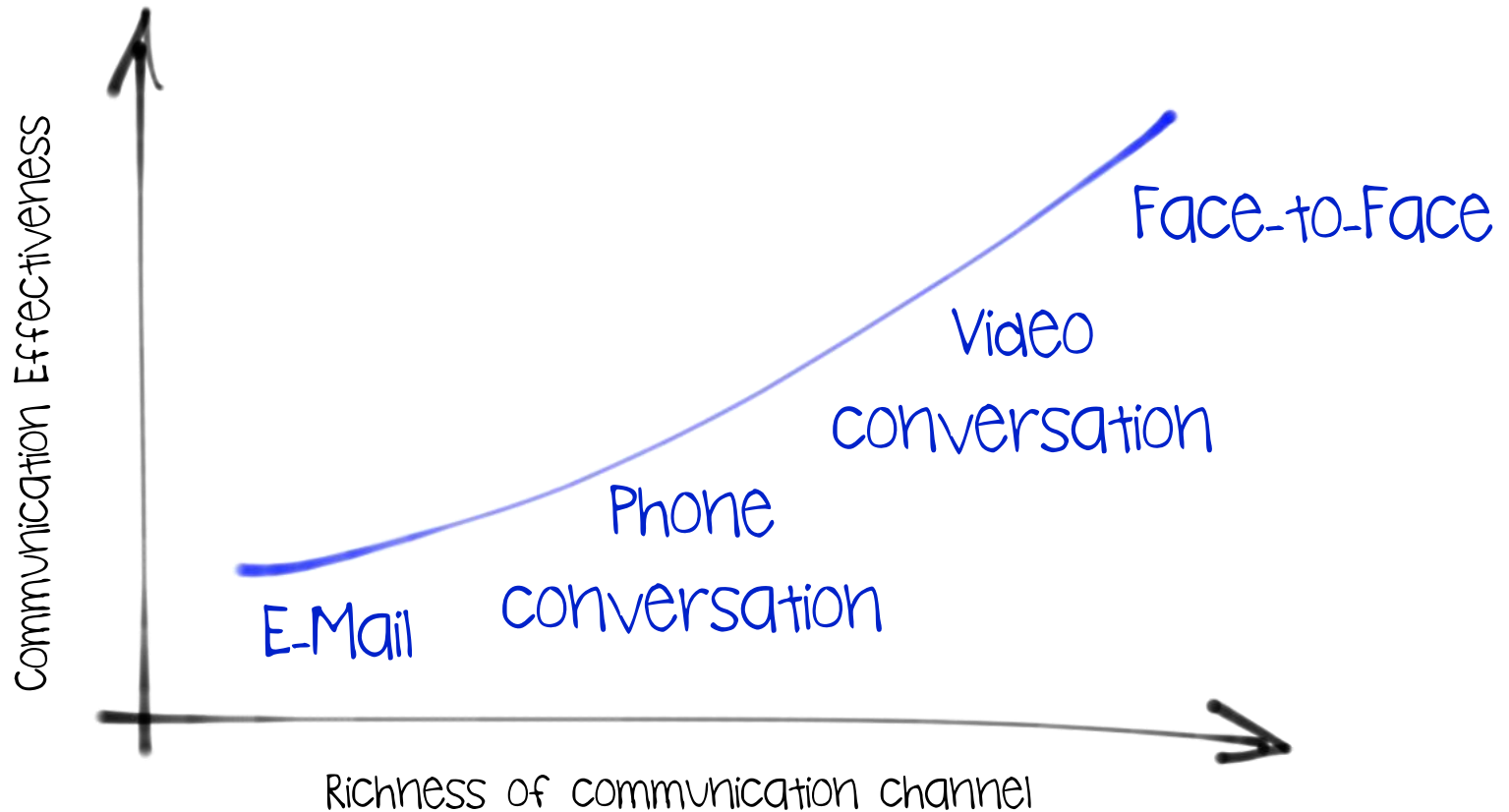


④

Colocation ...

④

...fosters collaboration



④

Appreciation ...

④

... is a powerful tool for employee motivation!



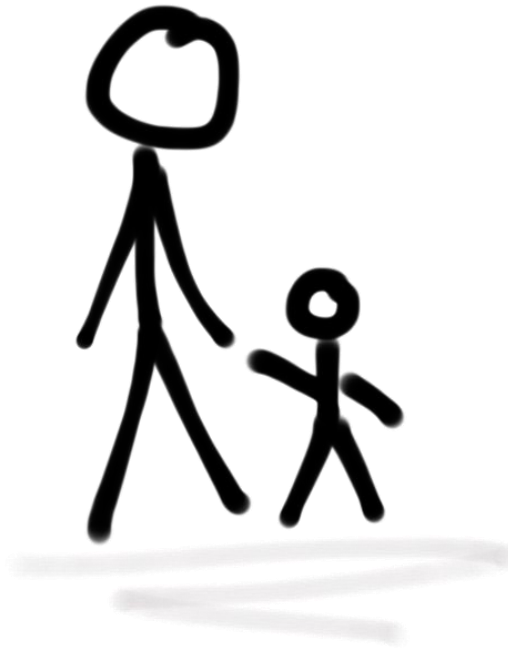
THANK
You!

④

Autonomy ...

④

...comes with a great deal of responsibility.



④

It's about change...

④

...and change starts with yourself



④

Conclusion

THANK YOU!

Sina.Scheuplein@draeger.com