

`/* Talking about code */`

Drupal Dev Days, Barcelona

June 16th, 2012

Jakob Persson, NodeOne

Introducing me



Web Strategist and CKO

Co-Founder of NodeOne

Worked with Drupal since 2005

jakob@nodeone.se

<http://www.twitter.com/realsolipsist>

<http://drupal.org/user/37564>

Introducing nodeone

Some of NodeOne's team and clients



Scandinavia's largest
Drupal services
provider

Employs 70 people

Offices in Sweden,
Denmark and
Norway

**What we do at NodeOne,
apart from...**

card games...



Hi, I'm
Dries!*

* No he's not really Dries,
but you knew that already.

www.drupalcardgame.com

Druplicons wielding nun-chuks...



Druplicon Road Trip – “Showdown in Paris” (YouTube)

Drupal rock stars...



“The Kitten Killers” Live at DrupalCon Copenhagen (photo by Dries)

Drupal air fresheners...



Drupal air fresheners revealed to the world

Druplicon cookie cutters



No longer available at our booth! ALL GONE! (cutters, not cute babies :))

Strategy and Usability



Web strategy, usability studies and effect mapping

Design and UX



User experience, GUI and graphic design

Development



Modules, themes, distributions and install profiles

Hosting and scalability



Hosting, optimization and monitoring

Training



Courses, books, screencasts and learning library

Consulting

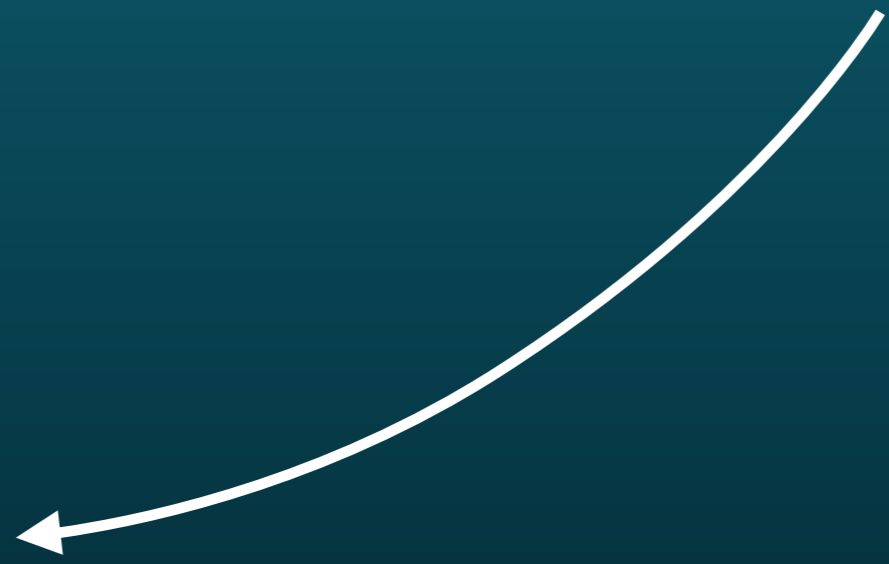


Technical consulting and solution architecture

**Talking is transfer of
knowledge**



Knowledge Management

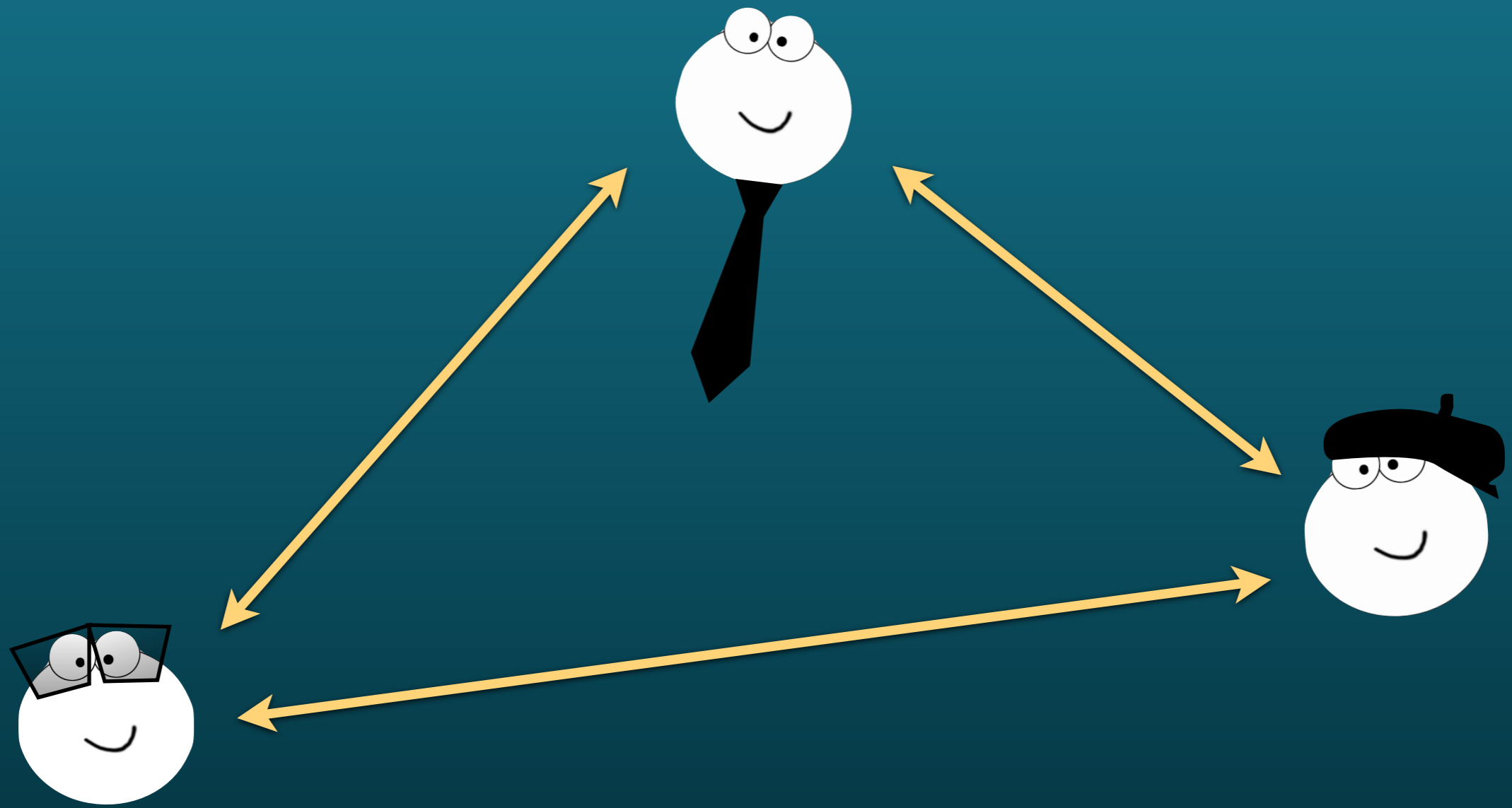


Knowledge Management

Knowledge
Flow
Management







*Knowledge management (KM) comprises a range of **strategies and practices** used in an organization to **identify, create, represent, distribute, and enable adoption of insights and experiences.***

*Such **insights and experiences** **comprise knowledge, either embodied in individuals or embedded in organizations as processes or practices.***

strategies and practices

strategies and practices

*identify, create, represent,
distribute, enable adoption*

strategies and practices

*identify, create, represent,
distribute, enable adoption*

insights and experiences

strategies and practices

*identify, create, represent,
distribute, enable adoption*

insights and experiences

knowledge

strategies and practices

*identify, create, represent,
distribute, enable adoption*

insights and experiences

knowledge

embodied or embedded

strategies and practices

*identify, create, represent,
distribute, enable adoption*

✓ Tools

✓ Processes

✓ Incentives

✓ Communities of practice

✓ Exchange programs

insights and experiences

knowledge

embodied or embedded

*identify, create, represent,
distribute, enable adoption*

insights and experiences

✓ Analysis

✓ Documents

knowledge
✓ Collaboration

✓ Conversation

embedded or embedded
✓ Presentation

insights and experiences

knowledge

- ✓ How do we gain insight and experiences?
- ✓ Learning
- ✓ Communication
- ✓ Sharing experiences

knowledge

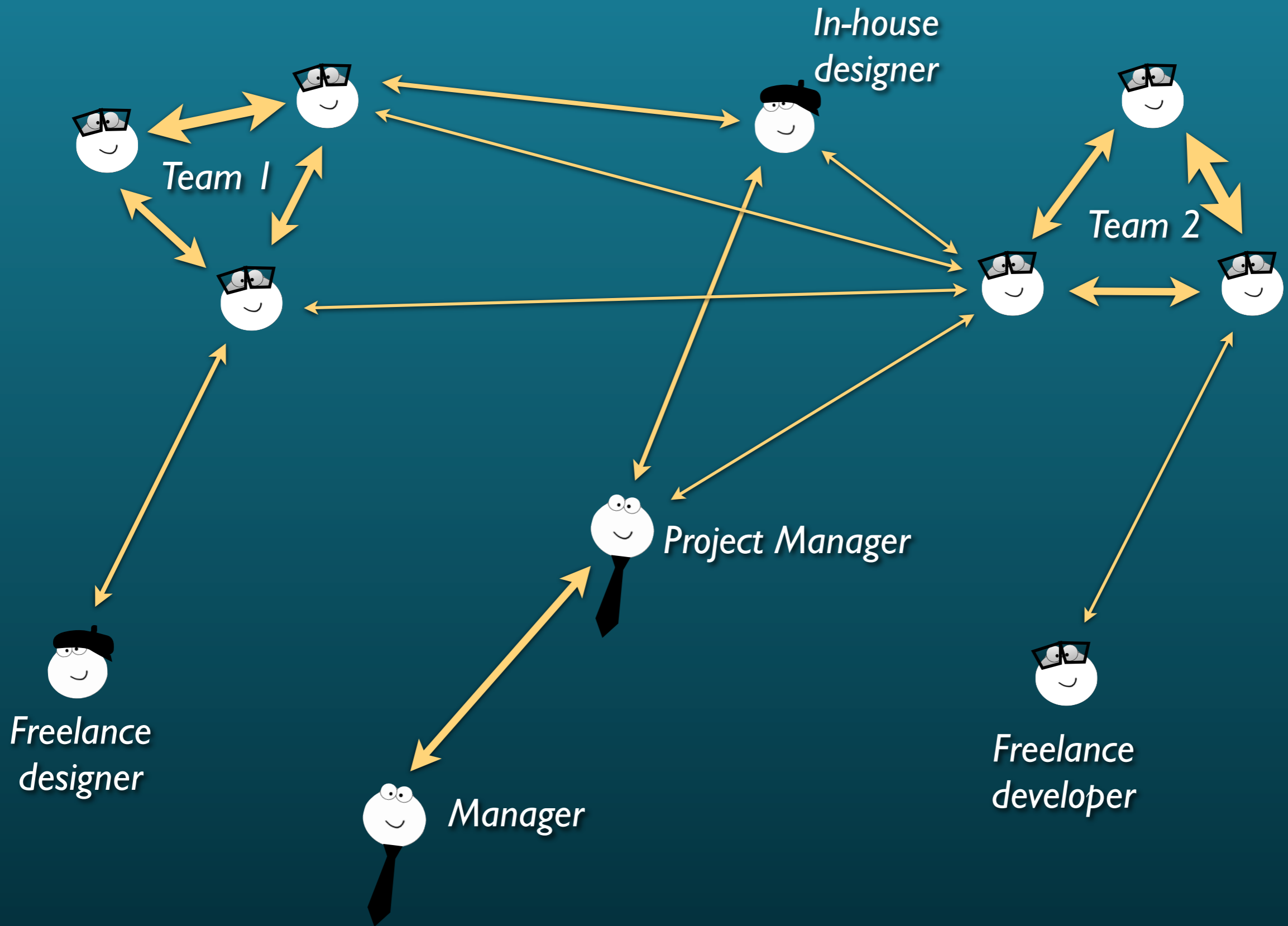
embodied or embedded

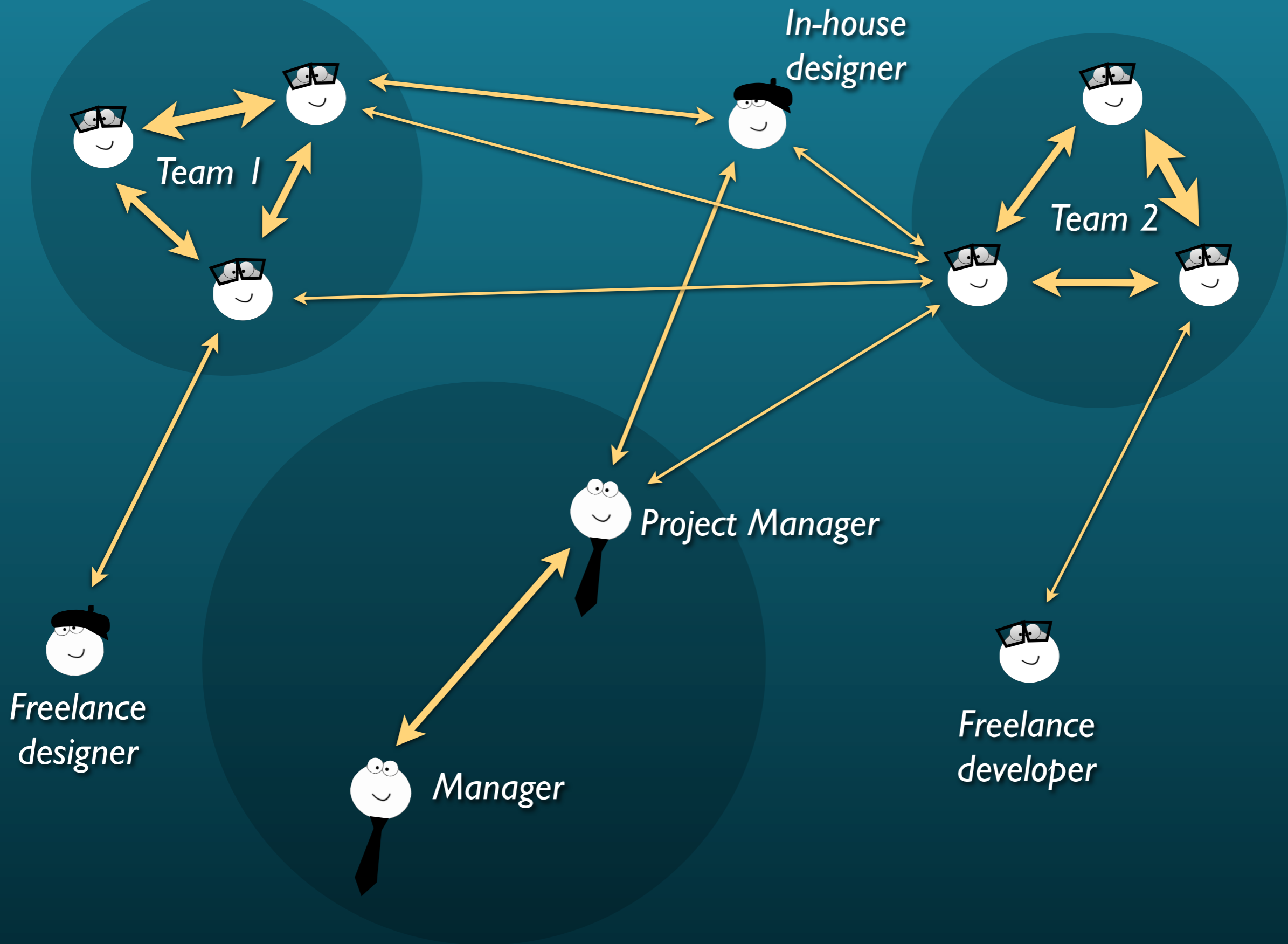
- ✓ Knowledge versus information
- ✓ Learning and teaching
- ✓ Building on the knowledge of others

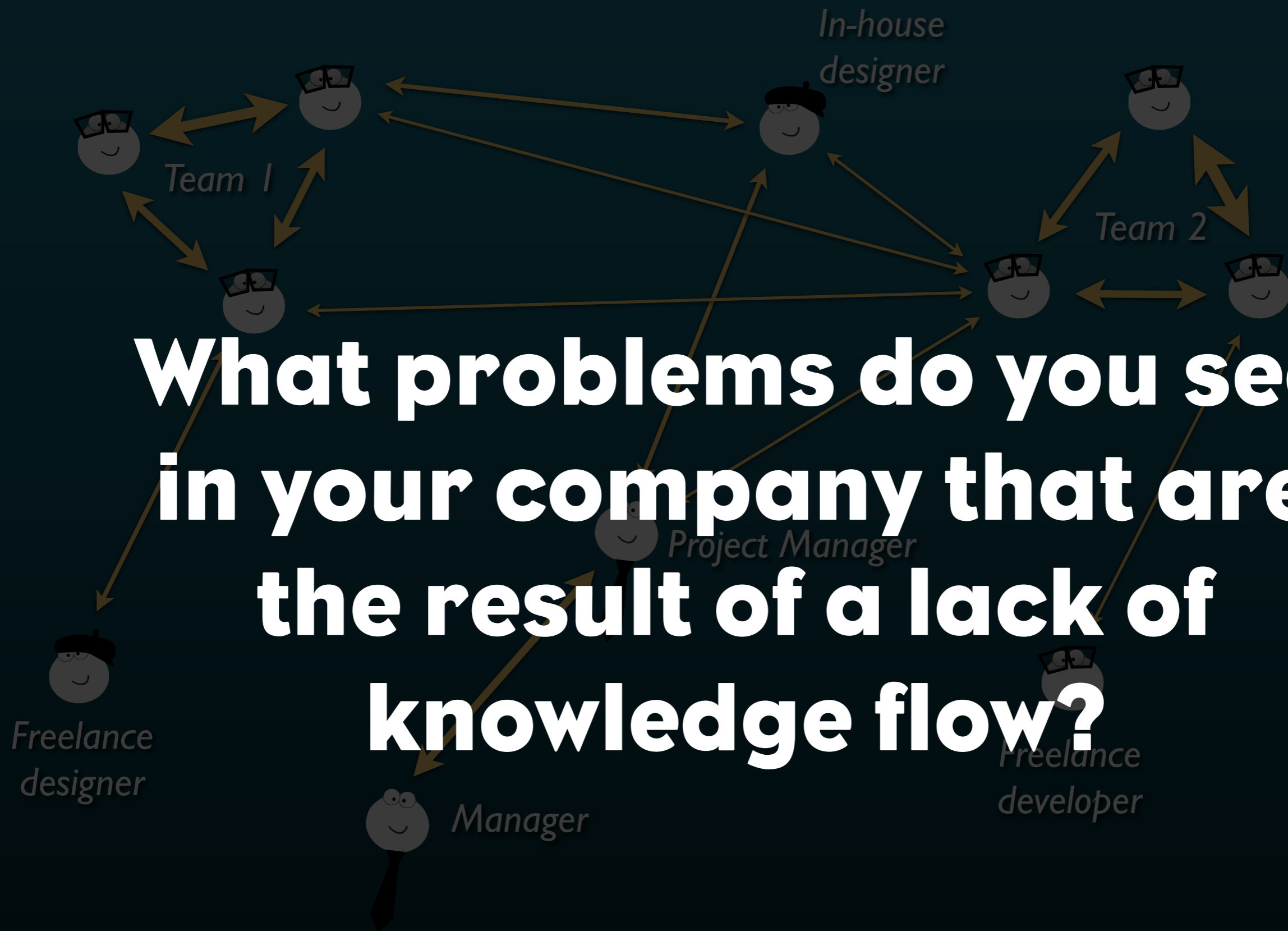
embodied or embedded

- ✓ Relying on key individuals
- ✓ Relying on practices and processes
- ✓ Shared ownership of knowledge

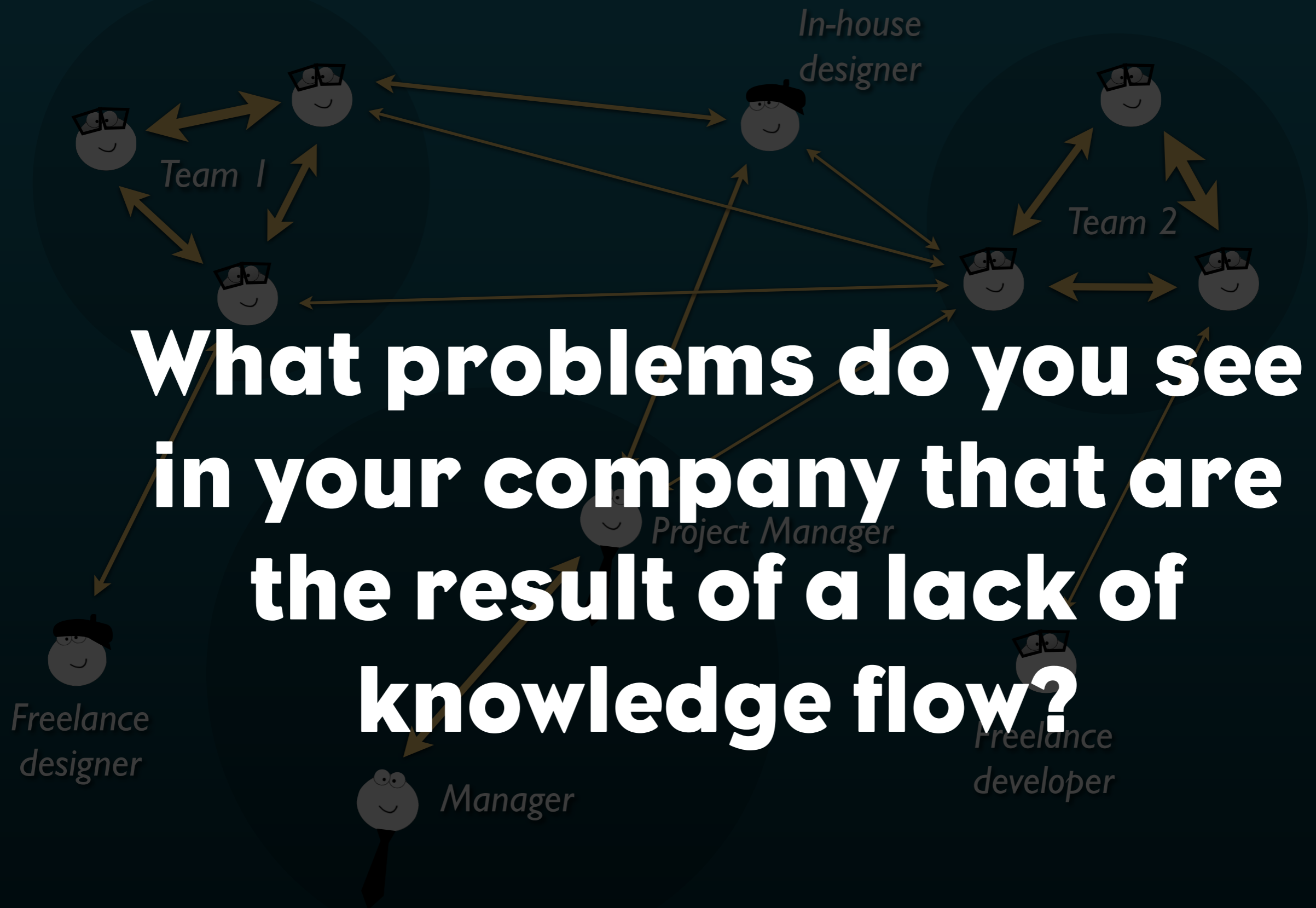


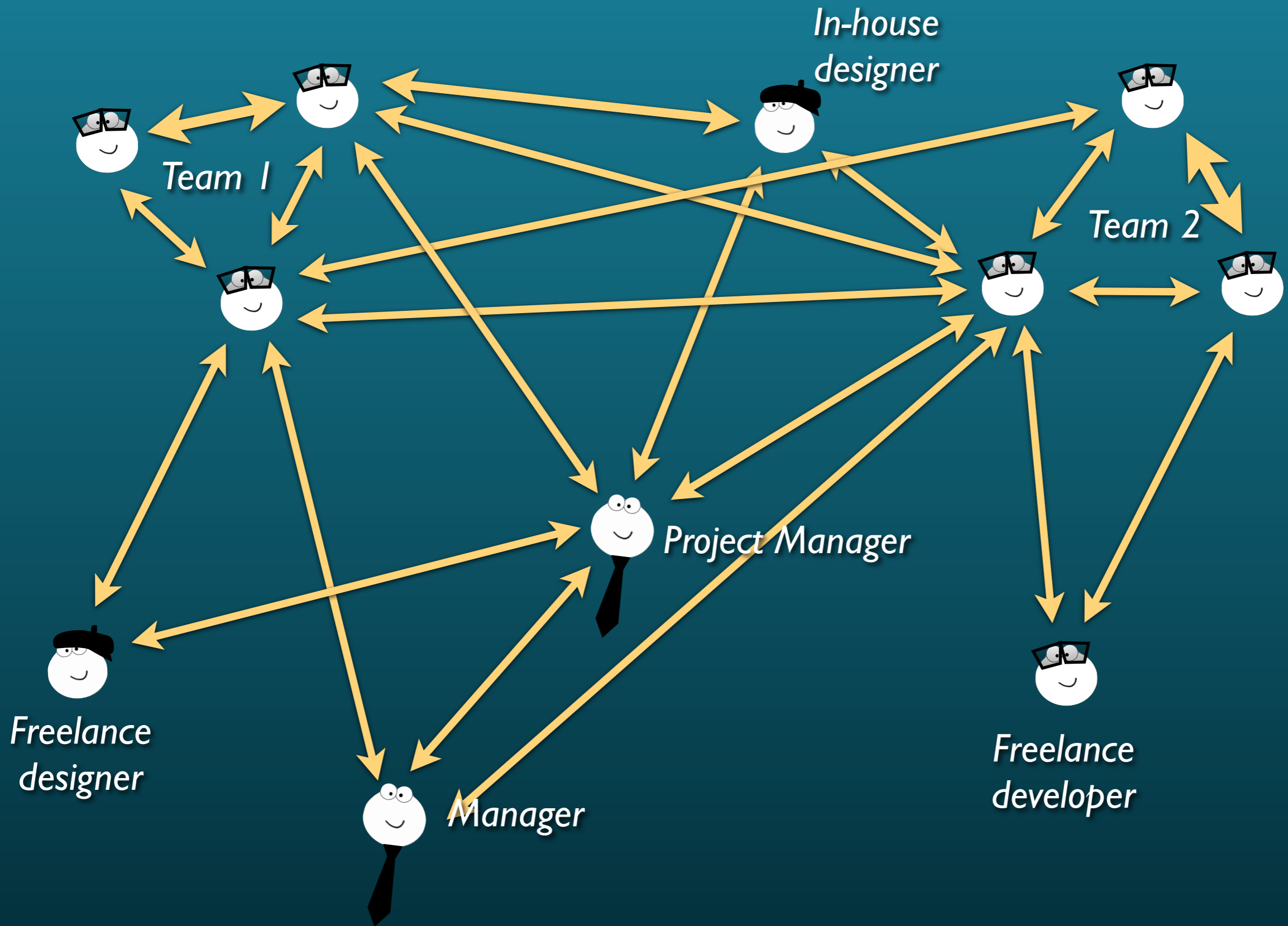






**What problems do you see
in your company that are
the result of a lack of
knowledge flow?**







**Directed
action**

**Removal of
barriers**

Direct action through

initiatives

that break down into

projects

that break down into

tasks

"PREUSSEN" FOOTBALL TEAM, GERMANY



“Knowledge is power”

“Knowledge is power”

**Missing awareness of
knowledge**

“Knowledge is power”

**Missing awareness of
knowledge**

Lack of time

“Knowledge is power”

**Missing awareness of
knowledge**

Lack of time

**Missing reward
systems**

“Knowledge is power”

**Missing awareness of
knowledge**

Lack of time

**Missing reward
systems**

**Missing knowledge
management awareness**

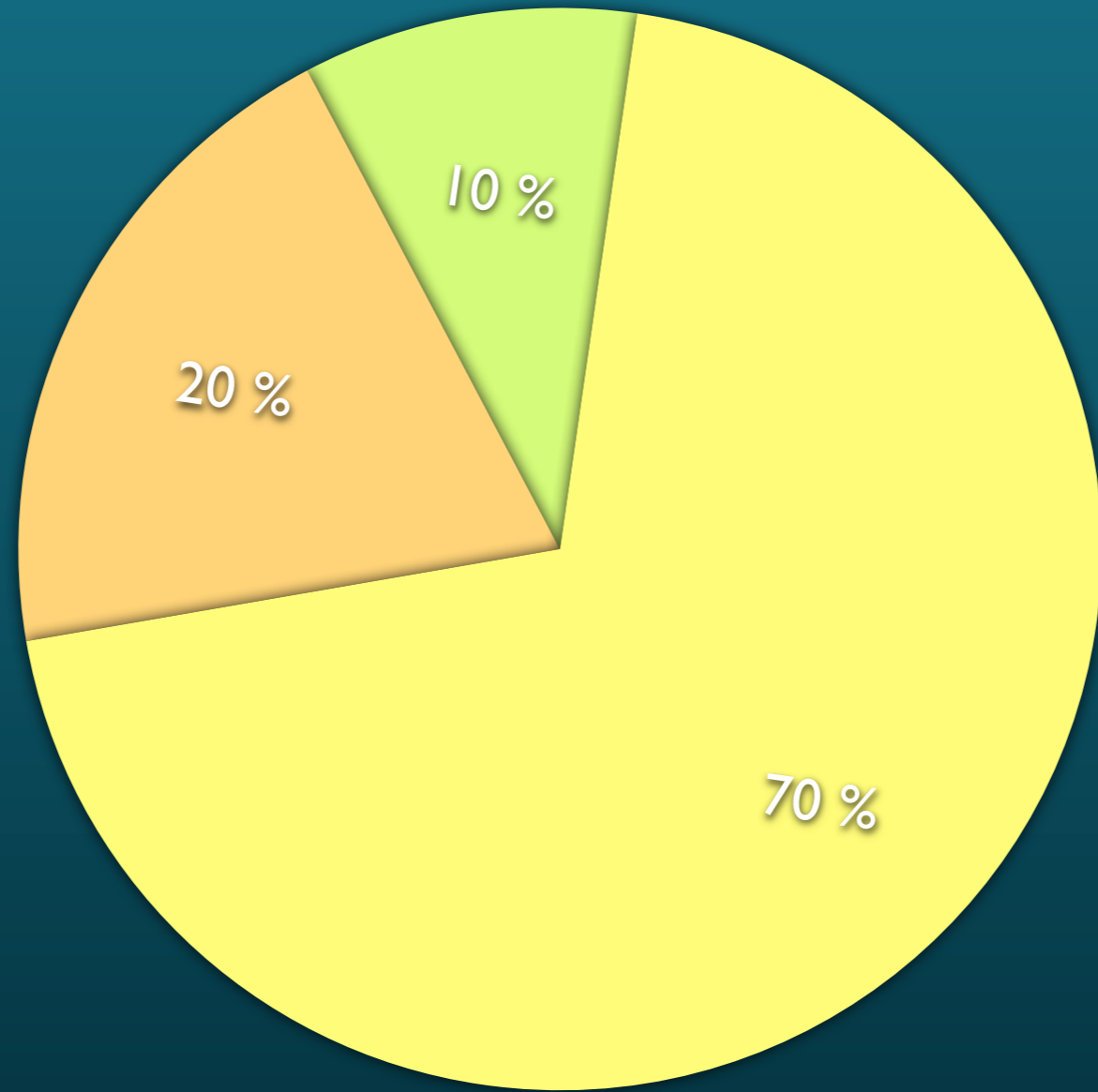
Lack of time

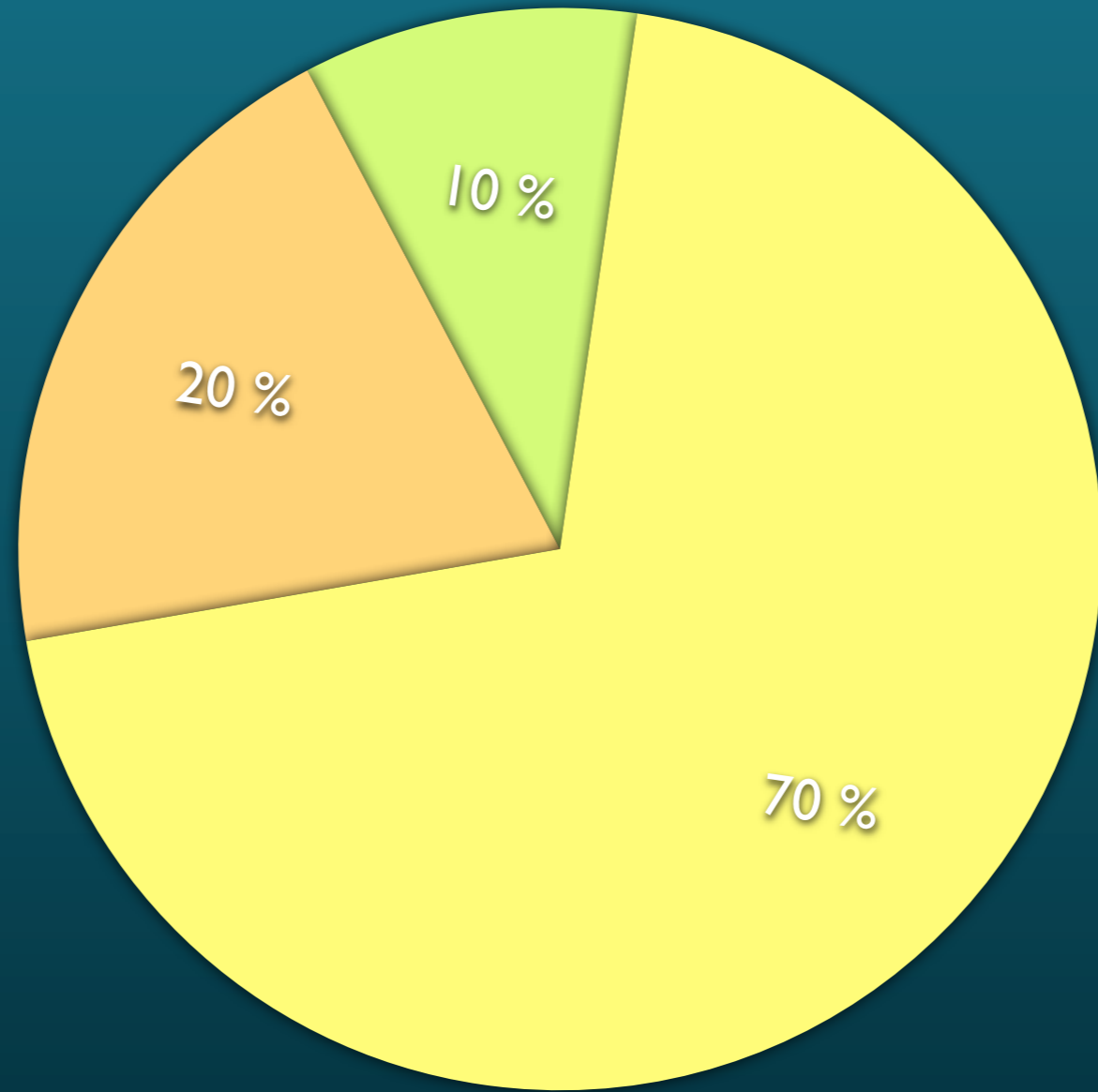
**Missing knowledge
management awareness**

**Missing awareness of
knowledge**

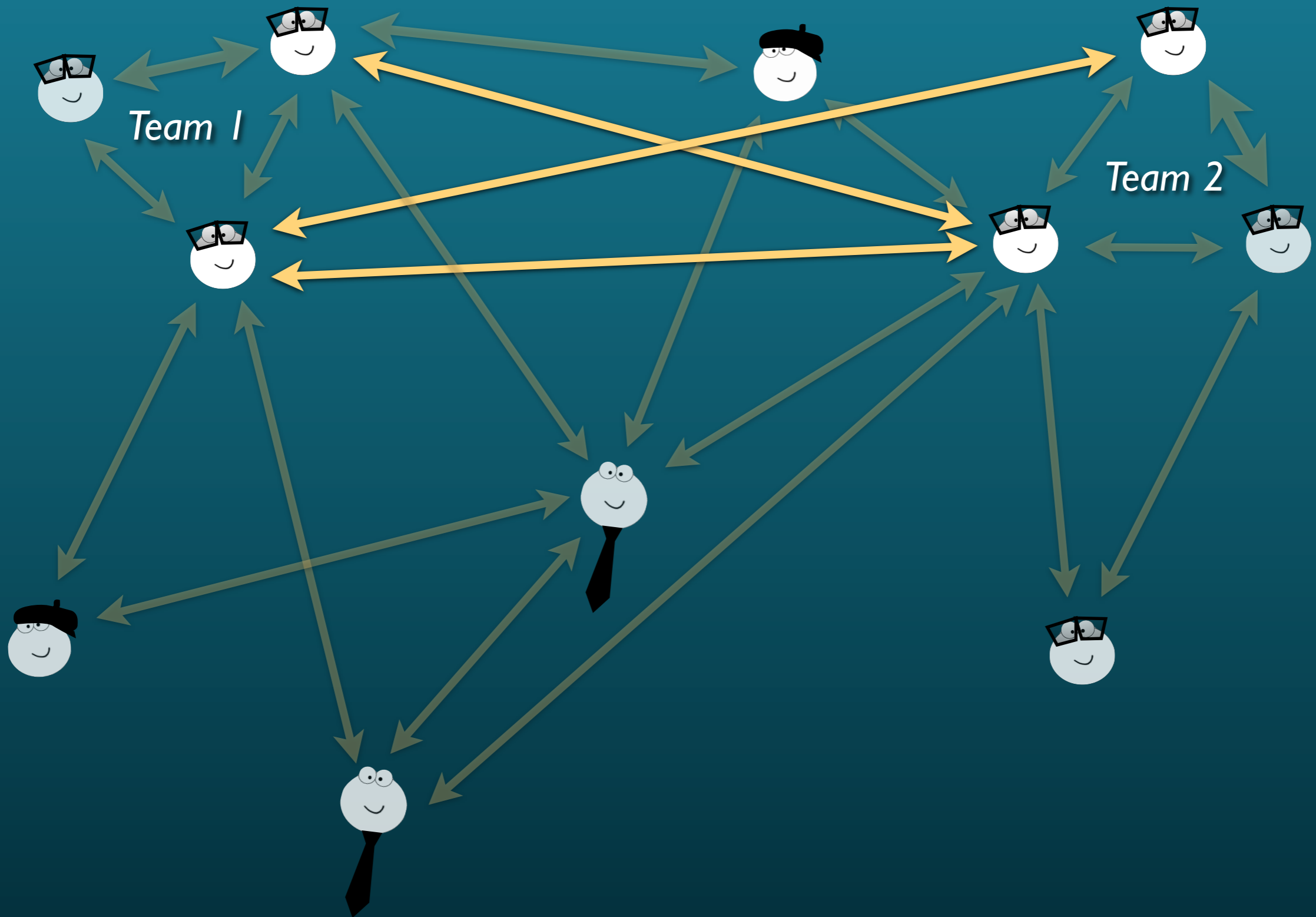
“Knowledge is power”

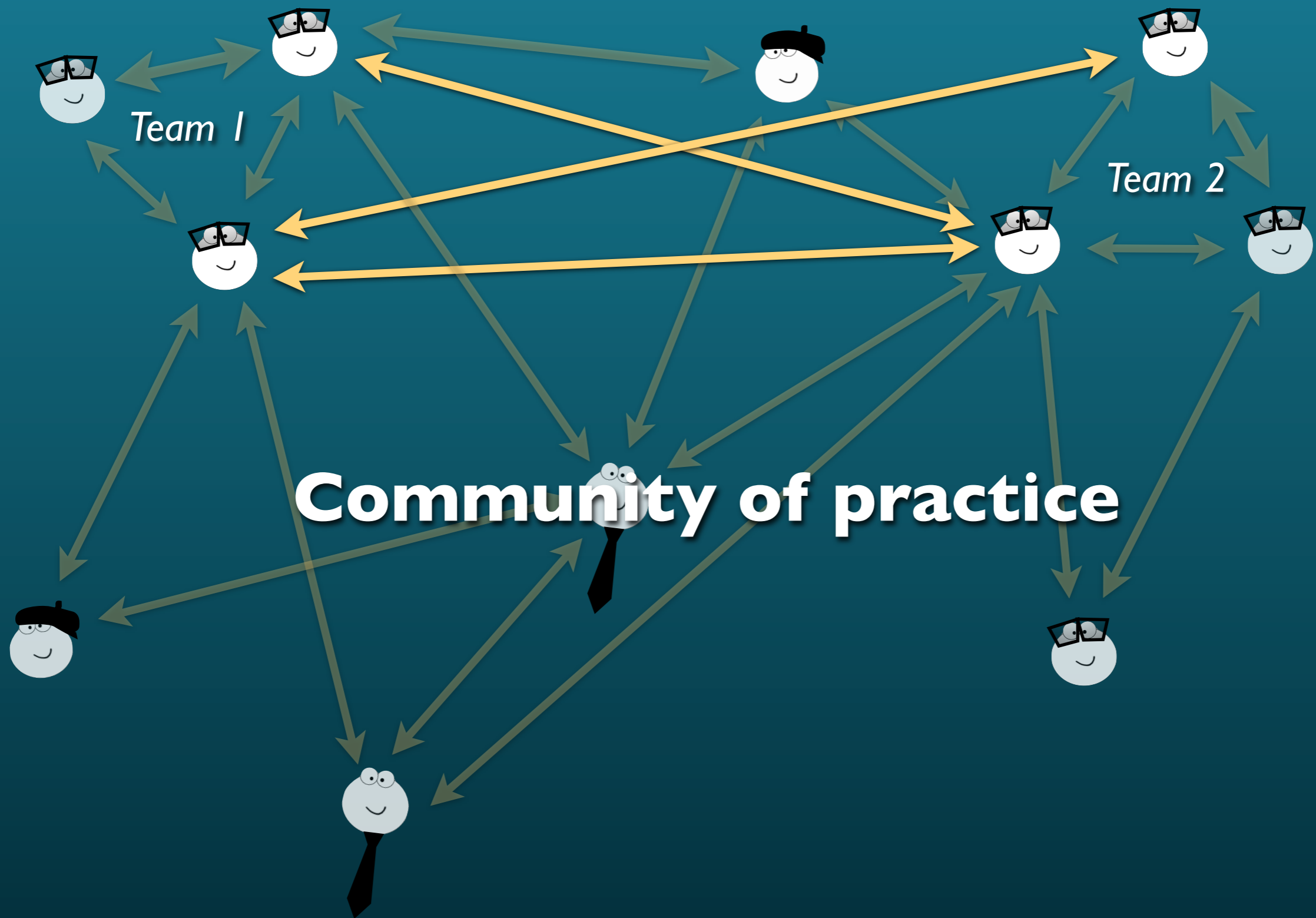
**Missing reward
systems**

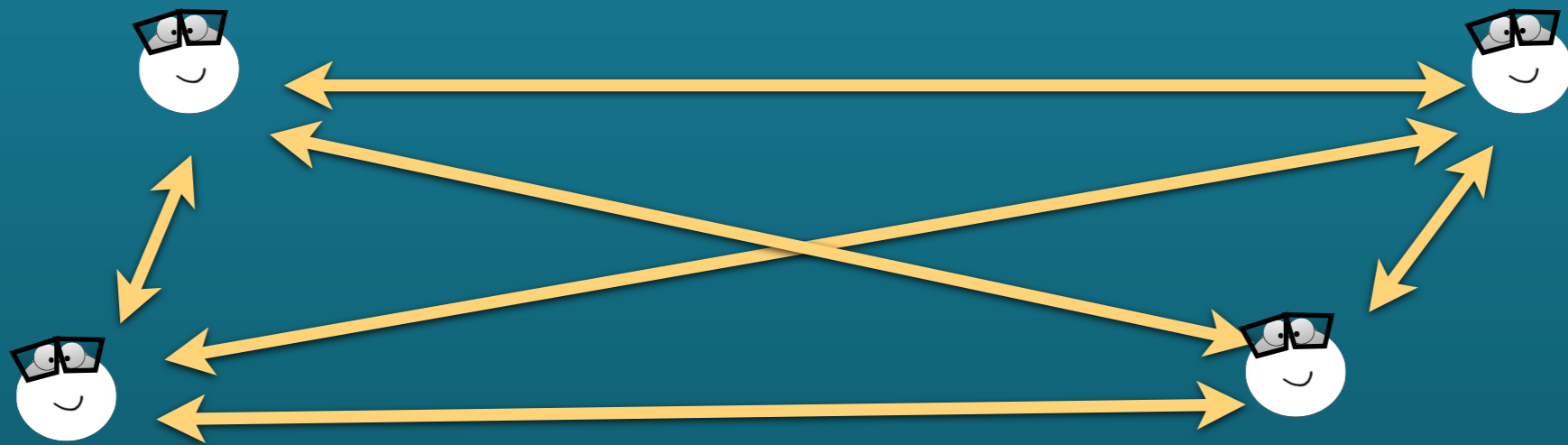




It's 70% about people!







Community of practice

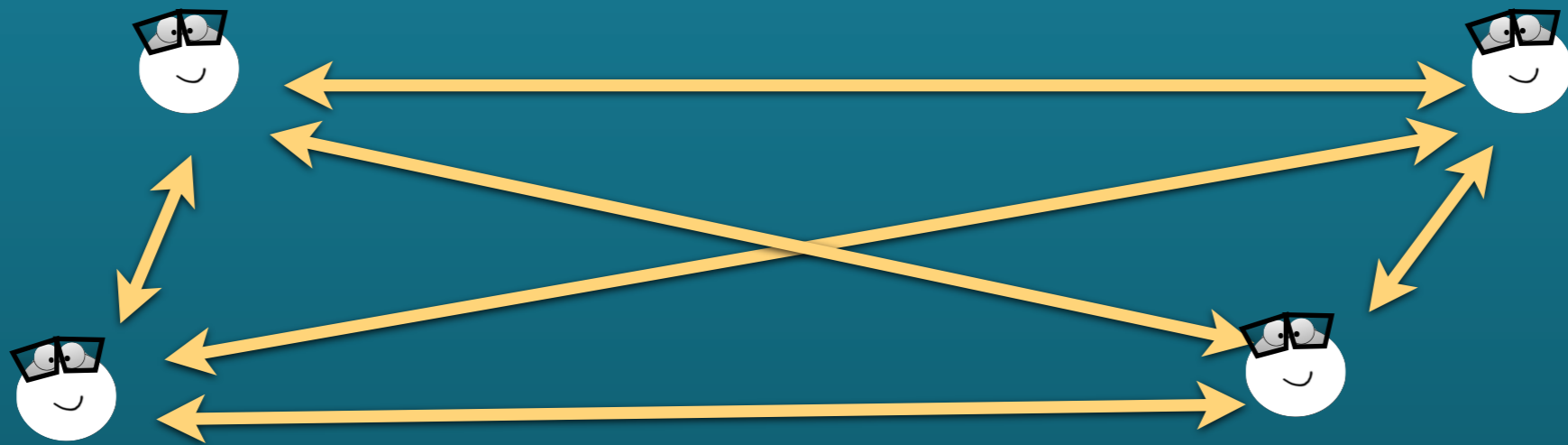
*Focuses on a **practice** or domain*

***Organically** created – not mandated*

Agenda and projects defined by the community itself

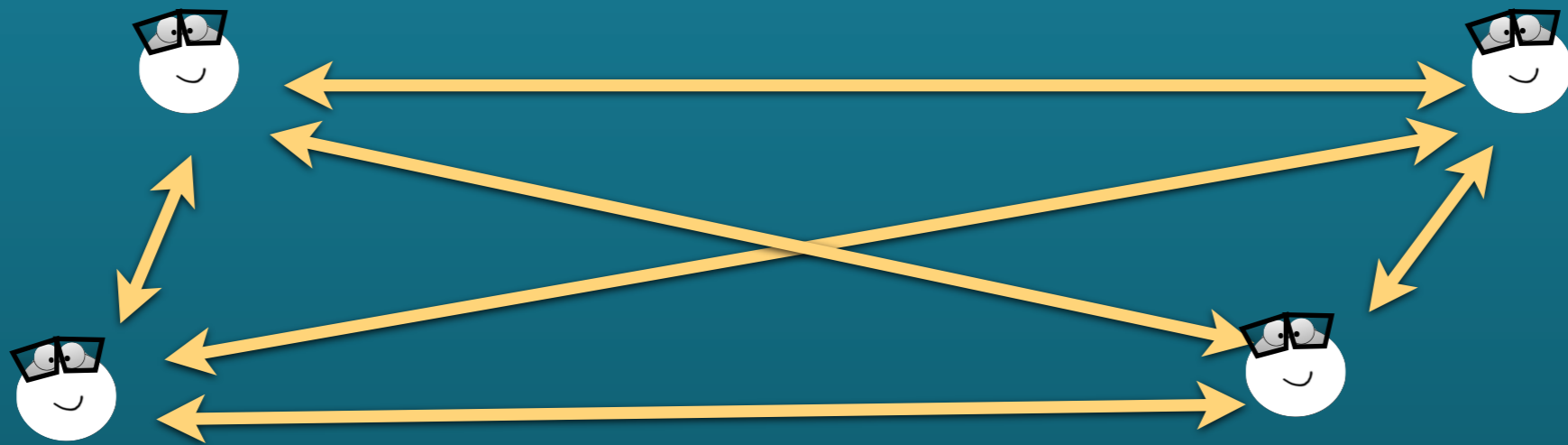
***Membership** is defined by the knowledge of the members*

*Can exist as long as the members believe they have something to **contribute** to, or gain from it*



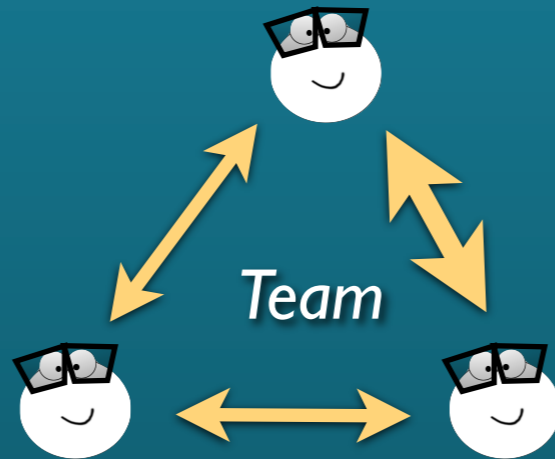
Community of practice

- + **Decreasing the learning curve** of new employees
- + **Responding more rapidly to customer needs** and inquiries
- + **Reducing rework** and preventing "reinvention of the wheel"
- + **Spawning new ideas** for products and services
- + **Capture and share "best practices"**



Community of practice

- + **Decreasing the learning curve** of new employees
- + **Responding more rapidly to customer needs** and inquiries
- + **Reducing rework** and preventing "reinvention of the wheel"
- + **Spawning new ideas** for products and services
- + **Capture and share "best practices"**



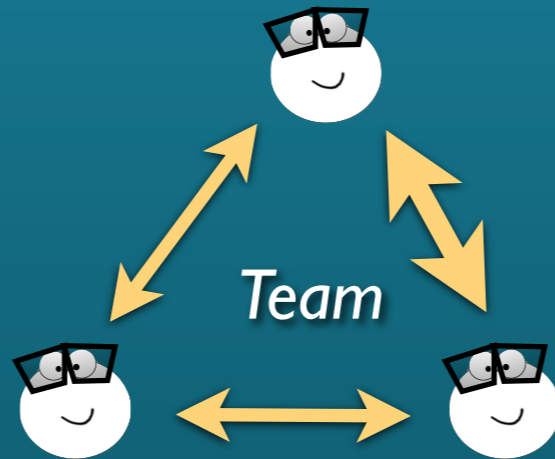
Standup

Regular meeting

Brief – standing up keeps it short

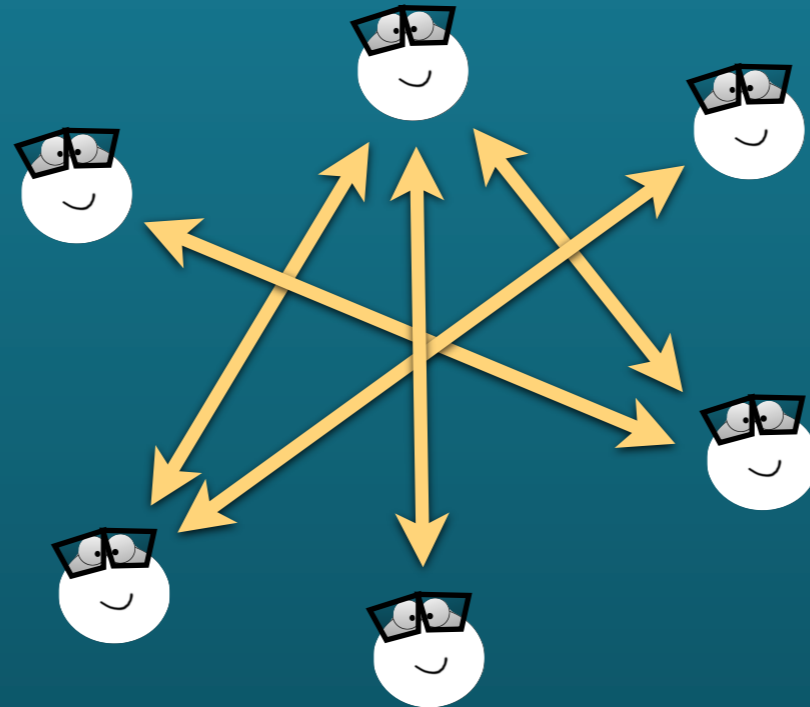
*Focuses on keeping work flowing – by asking what? next?
problems/obstacles?*

Lead by the team's scrum master



Standup

- + **Keeps entire team up to date** on project status
- + **Promotes closer working relationships** with its frequency
- + **Raises topics needed to be discussed** – increasing knowledge transfer



Solution match-making

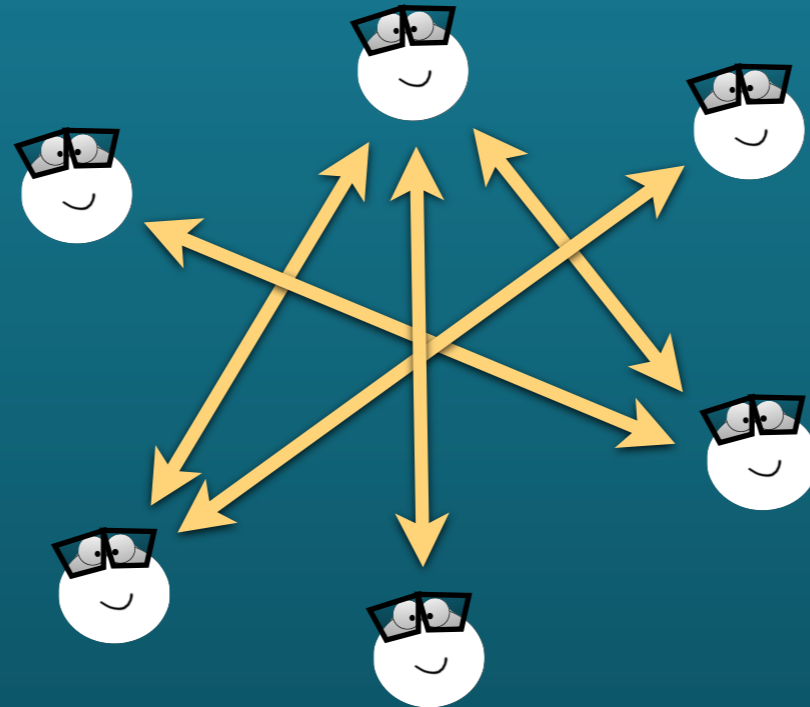
Includes everyone

Led and moderated by a facilitator

People attending briefly explain problems/bugs and are then paired with those with solutions

Short and effective through moderation and time-boxing

Happens regularly – usually once per day



Solution match-making

- + **Helps people stuck with bugs** find someone who has solved a similar problem
- + **Prevents solutions being “re-invented”** for lack of knowing someone to ask
- + **Leads to increased cross-learning as matches made**
- + **Raises topics needed to be discussed** – increasing knowledge transfer



Pair programming

Requires little – a wide desk, big screen and sufficient personal hygiene

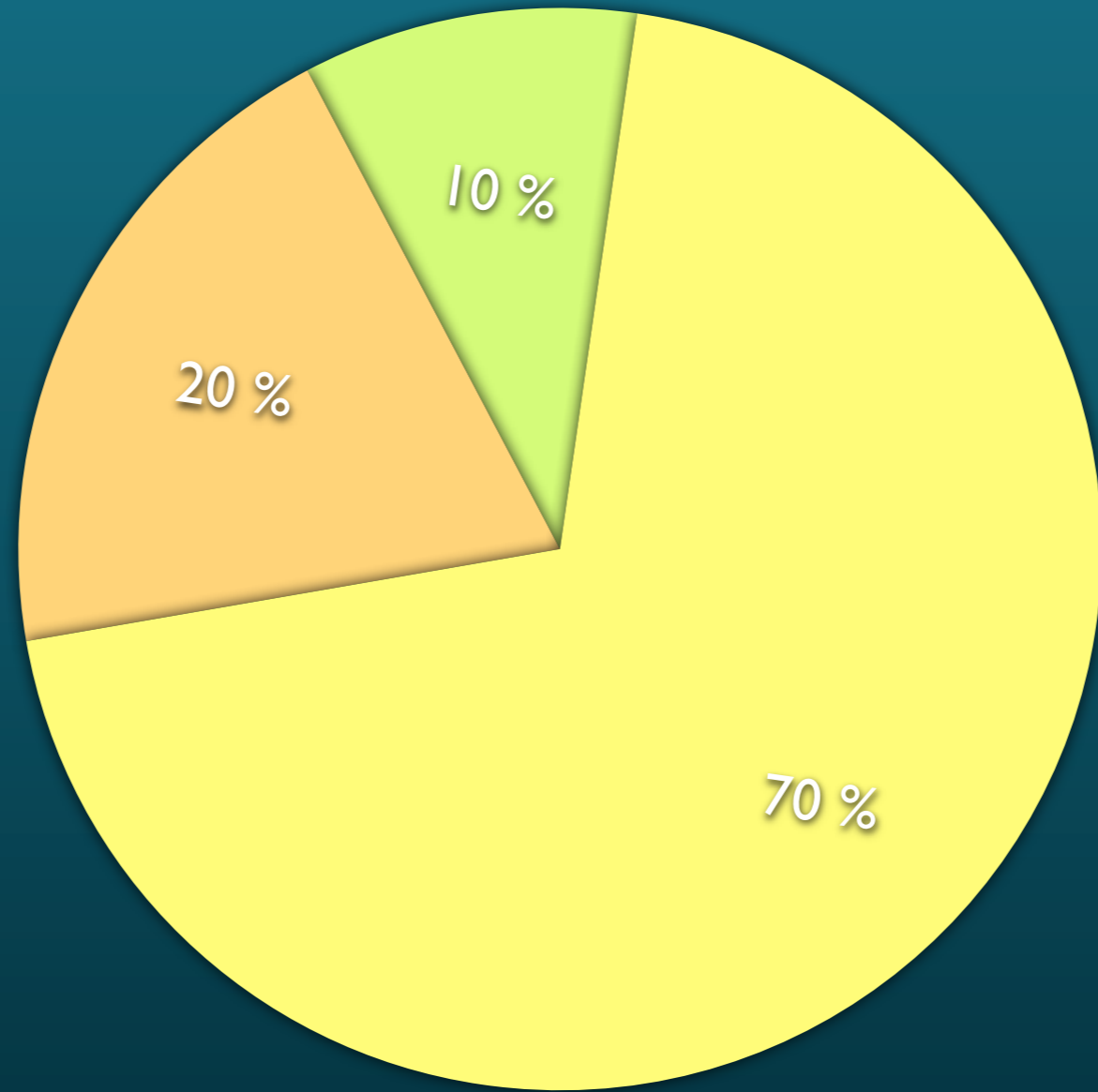
Can be done by developers whenever they see the need

One developer is the tactical “driver” – the other the strategic “observer/navigator” – roles are switched frequently

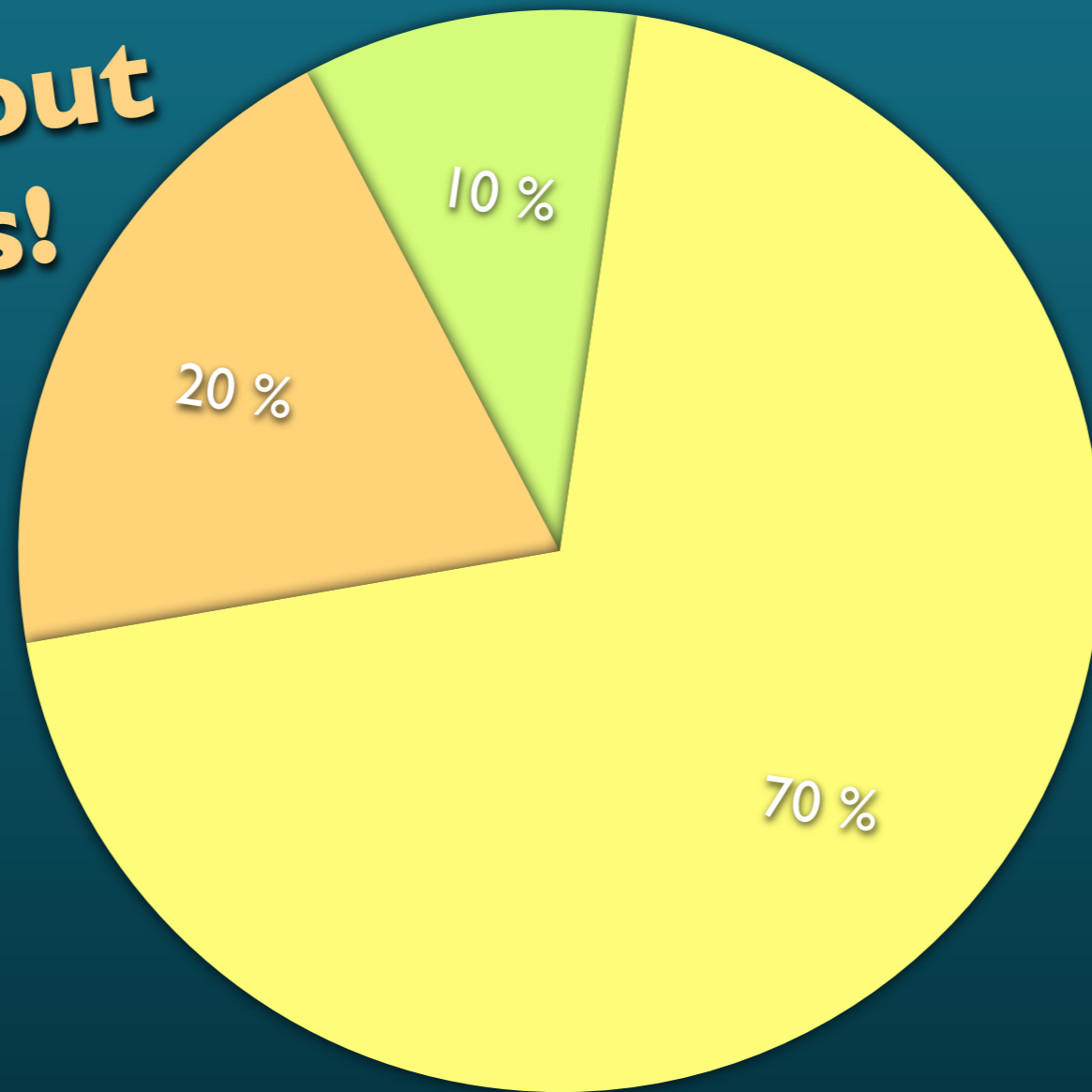


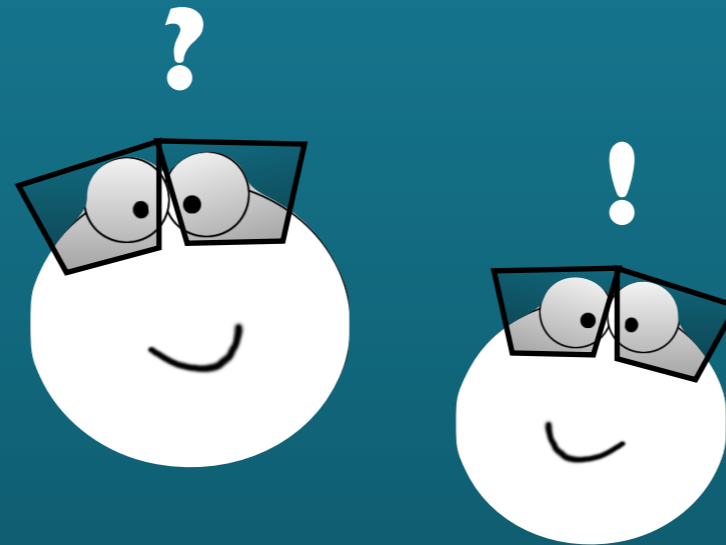
Pair programming

- + **Helps new developers learn** from more experienced developers
- + **Improves conformity** in coding styles and solutions
- + **Applied “promiscuously” can be used to spread knowledge through the entire team**
- + **Reduces defects/bugs by 15 - 50%**



**It's 20% about
processes!**





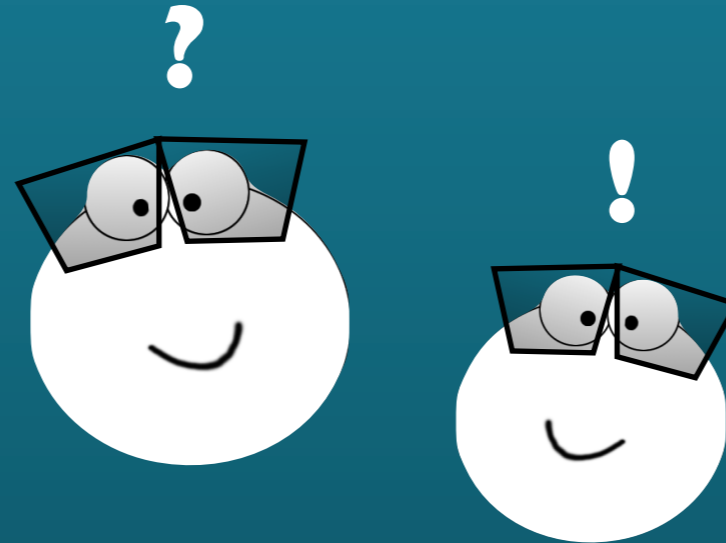
Training new staff

Newly hired are helped to come up to speed faster

Can be made very cheap and resource non-intensive

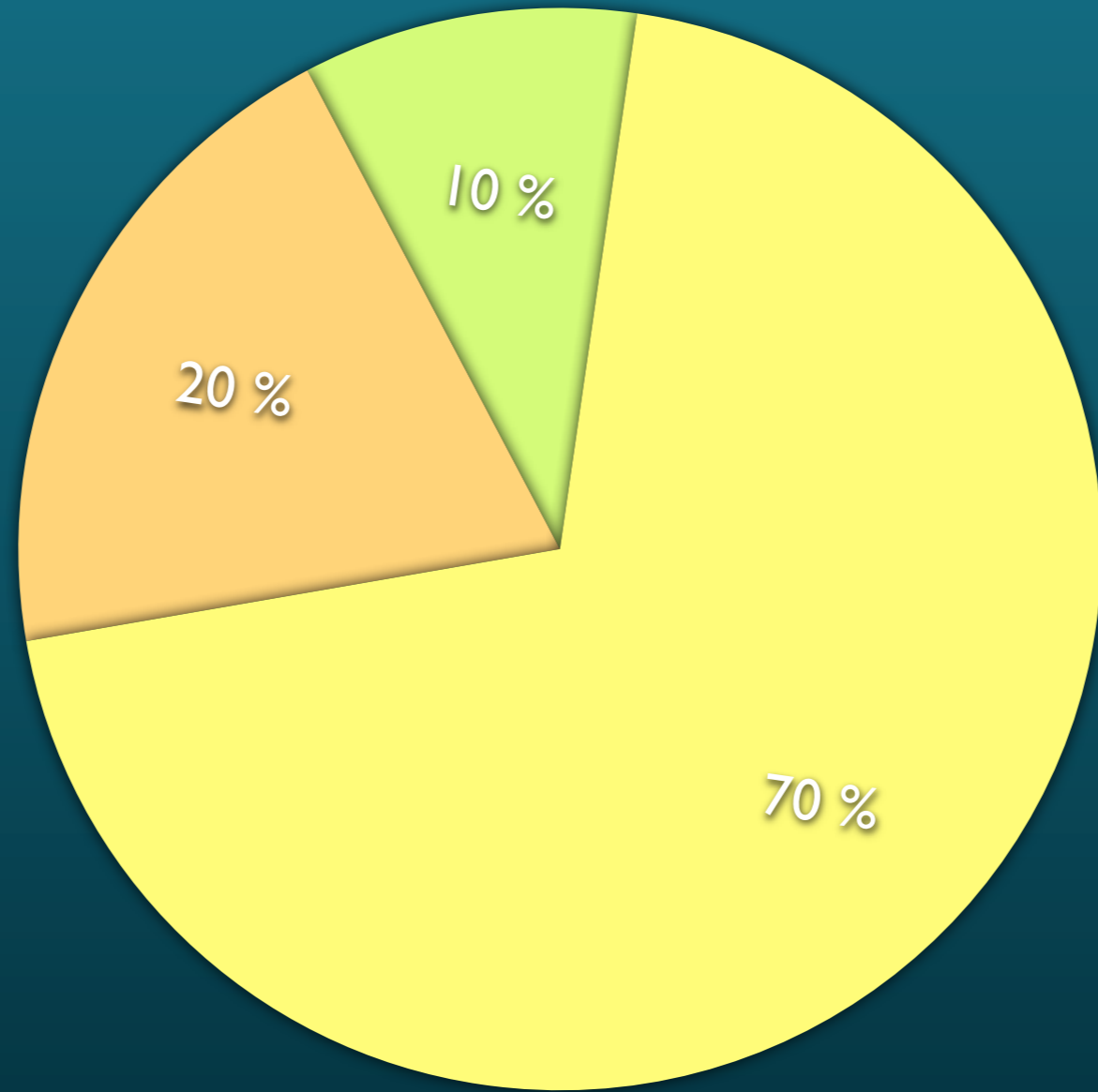
Requires a mentor role and a CoP for development

Has great effect even at small scale

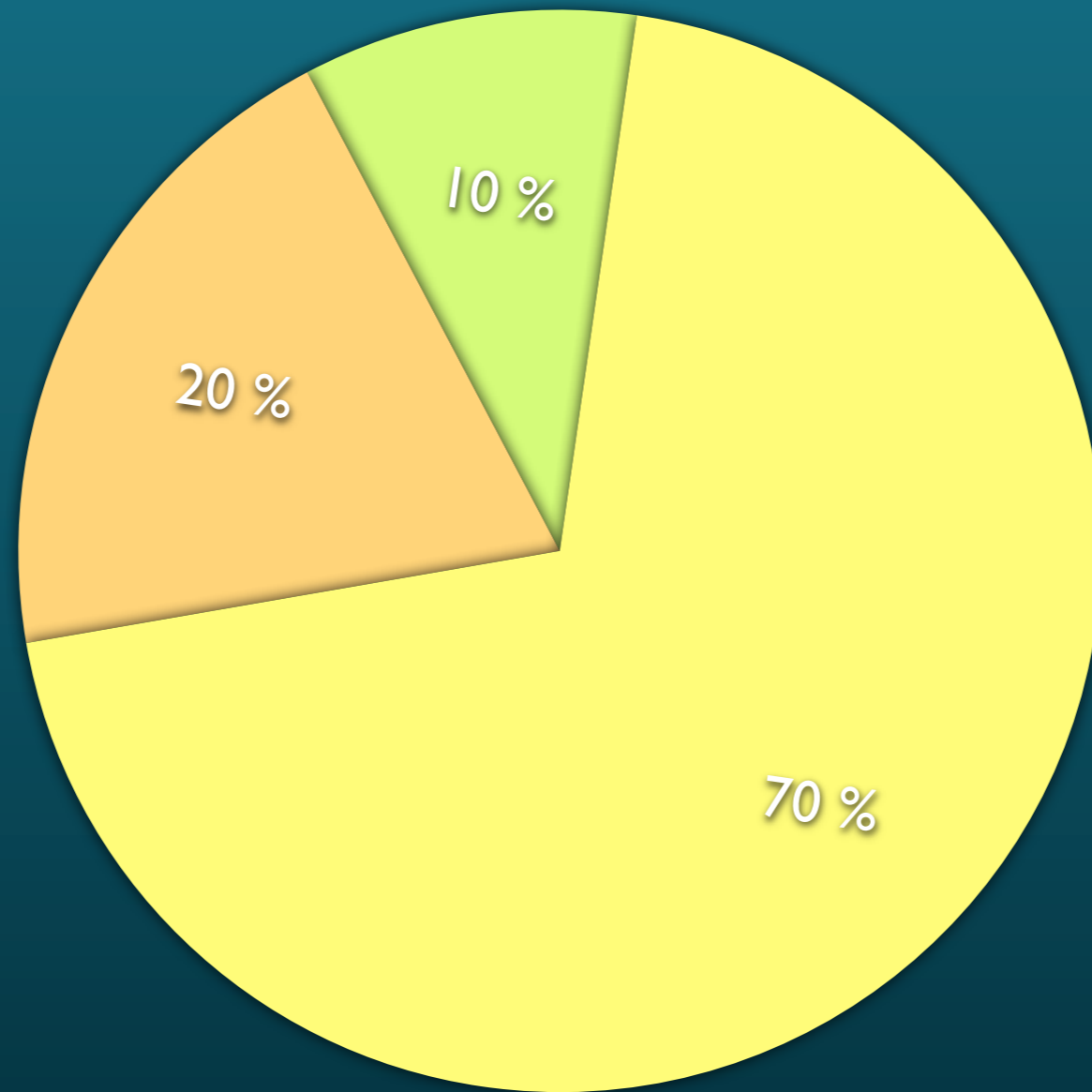


Training new staff

- + **Even a simple checklist of “things to know” makes a difference**
- + **Speeds up learning and new hires can start billing fast** – as soon as day two
- + **Offloads rest of team** from having to support the new hire
- + **Developers with teaching skills get recognition** for being “mentors”



**It's 10% about
technology!**





Wiki

Can be built on Drupal in short time

Good for storing information

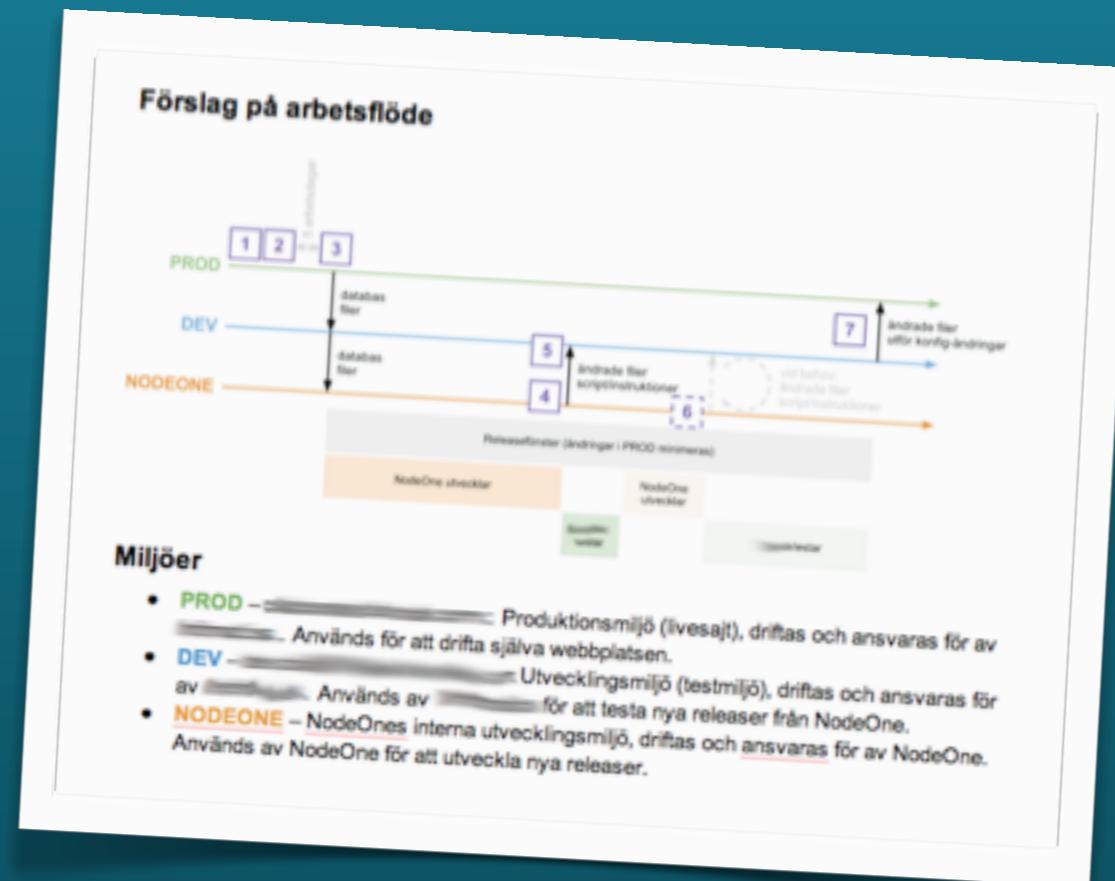
Content needs to be kept up-to-date





Wiki

- + **Good for storing instructions, scripts, snippets and notes**
- + **Repository for things you need to keep track of and which benefit more people than you**
- + **Has low barrier of entry**

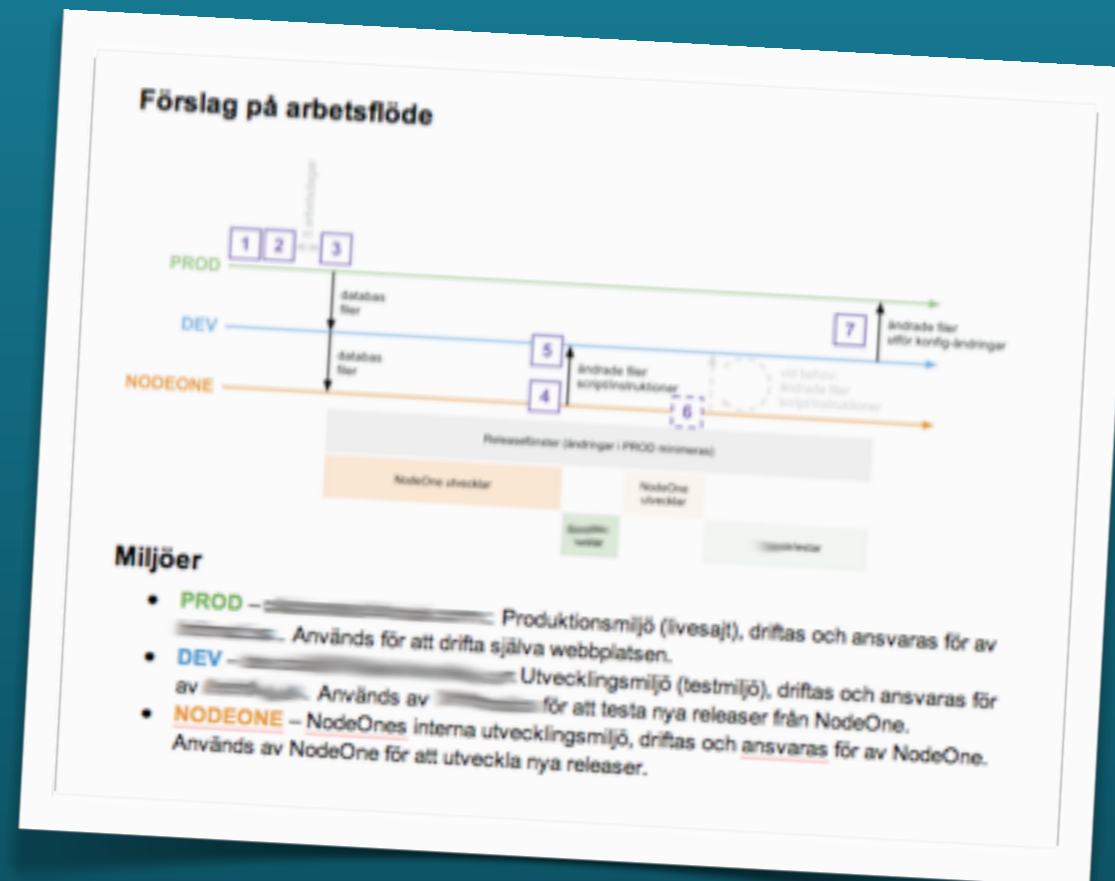


Site documents

List everything technical that's needed to know to work on a project

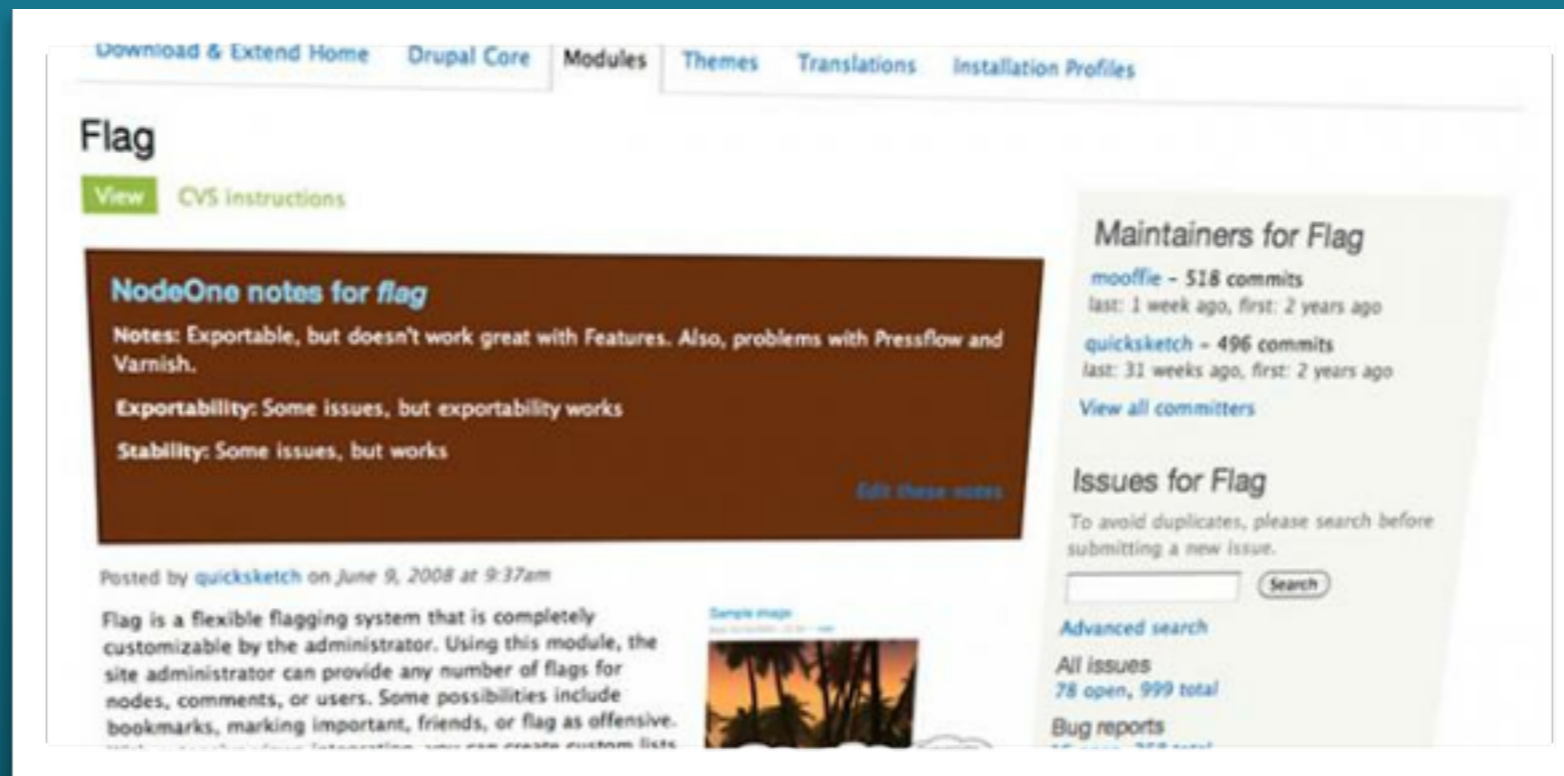
Managed and owned by the developers

Should be easy to access and stored with the site, for example in its code repository



Site documents

- + **Accessible and concise** – follows a standardized format
- + **Helps developers taking over** maintenance of a website
- + **Reduces dependence on keeping notes in email and risk of having conflicting information**

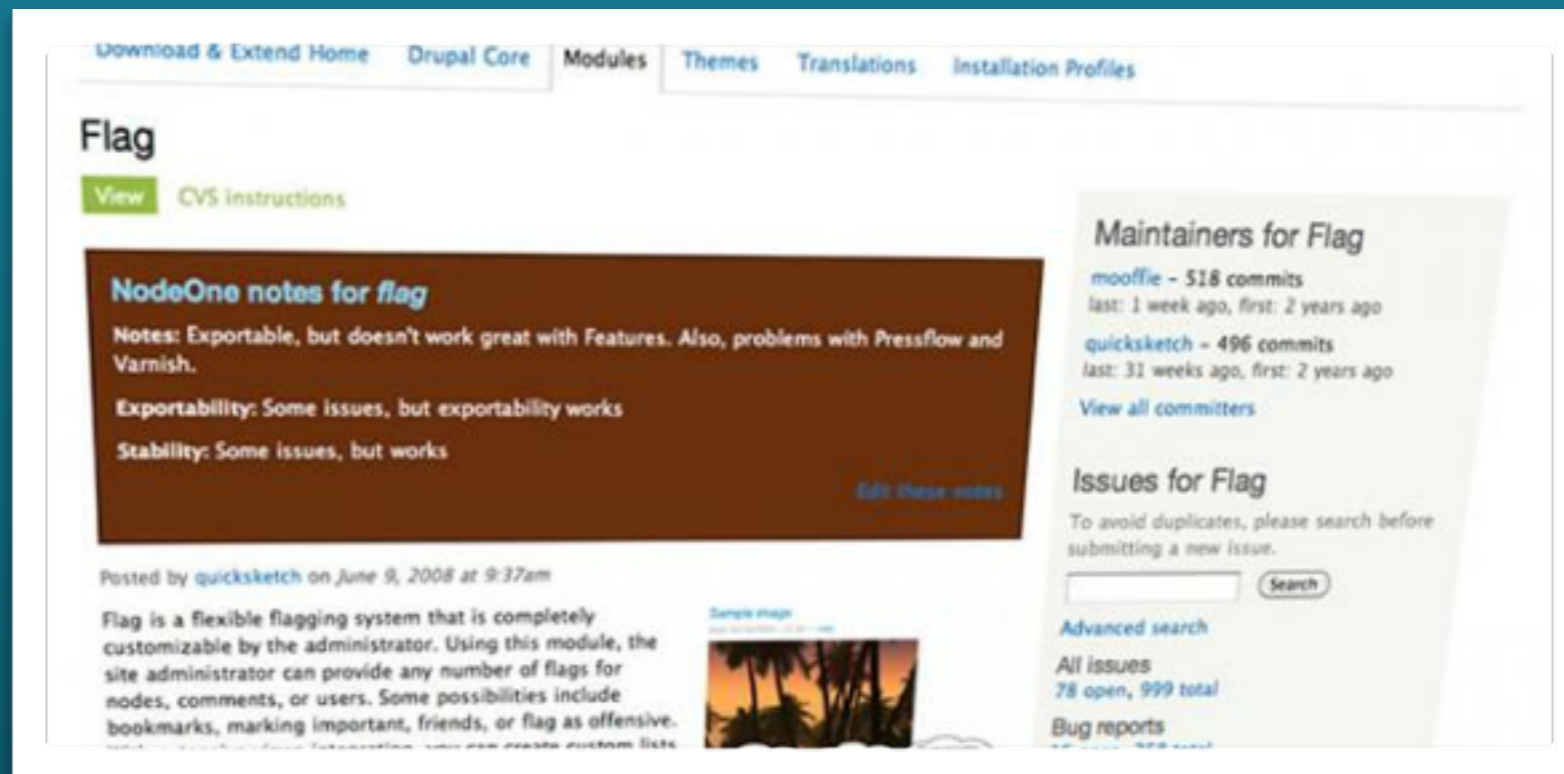


Browser notes

Shows notes and remarks on drupal.org projects in the browser

Installed in the browser as a user script and uses our wiki as note repository

Everyone can edit and contribute notes – it's easy and painless



Browser notes

- + **Makes information available contextually** – no extra step needed to find it
- + **It's always there** - you don't have to think about it
- + **Encourages contribution and updating of notes to keep them up-to date**

Download & Extend Home | **Drupal Core** | Modules | Themes | Translations | Installation Profiles

Flag

[View](#) [CVS Instructions](#)

NodeOne notes for *flag*

Notes: Exportable, but doesn't work great with Features. Also, problems with Pressflow and Varnish.


Exportability: Some issues, but exportability works

Stability: Some issues, but works

[Edit these notes](#)

Posted by [quicksketch](#) on June 9, 2008 at 9:37am

Flag is a flexible flagging system that is completely customizable by the administrator. Using this module, the site administrator can provide any number of flags for nodes, comments, or users. Some possibilities include bookmarks, marking important, friends, or flag as offensive.



[Sample image](#)

Maintainers for Flag

[mooffie](#) - 518 commits
last: 1 week ago, first: 2 years ago

[quicksketch](#) - 496 commits
last: 31 weeks ago, first: 2 years ago

[View all committers](#)

Issues for Flag

To avoid duplicates, please search before submitting a new issue.

[Advanced search](#)

All issues
78 open, 999 total

Bug reports

Browser notes

Read more and download:

<http://bit.ly/KP3ESH>

issue tracker

g.d.o

git

projects

*camp*s

wikis

Drupal

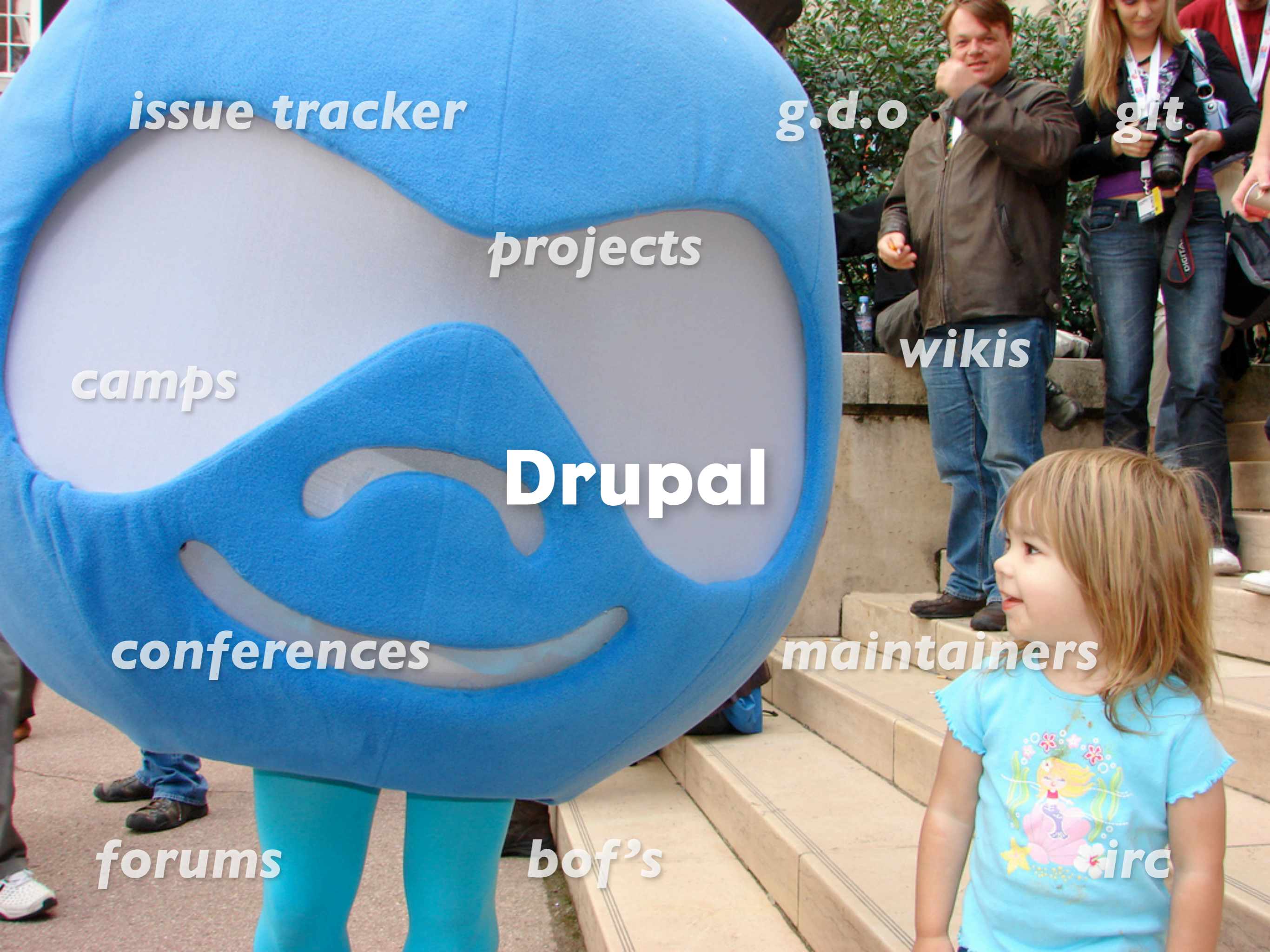
conferences

maintainers

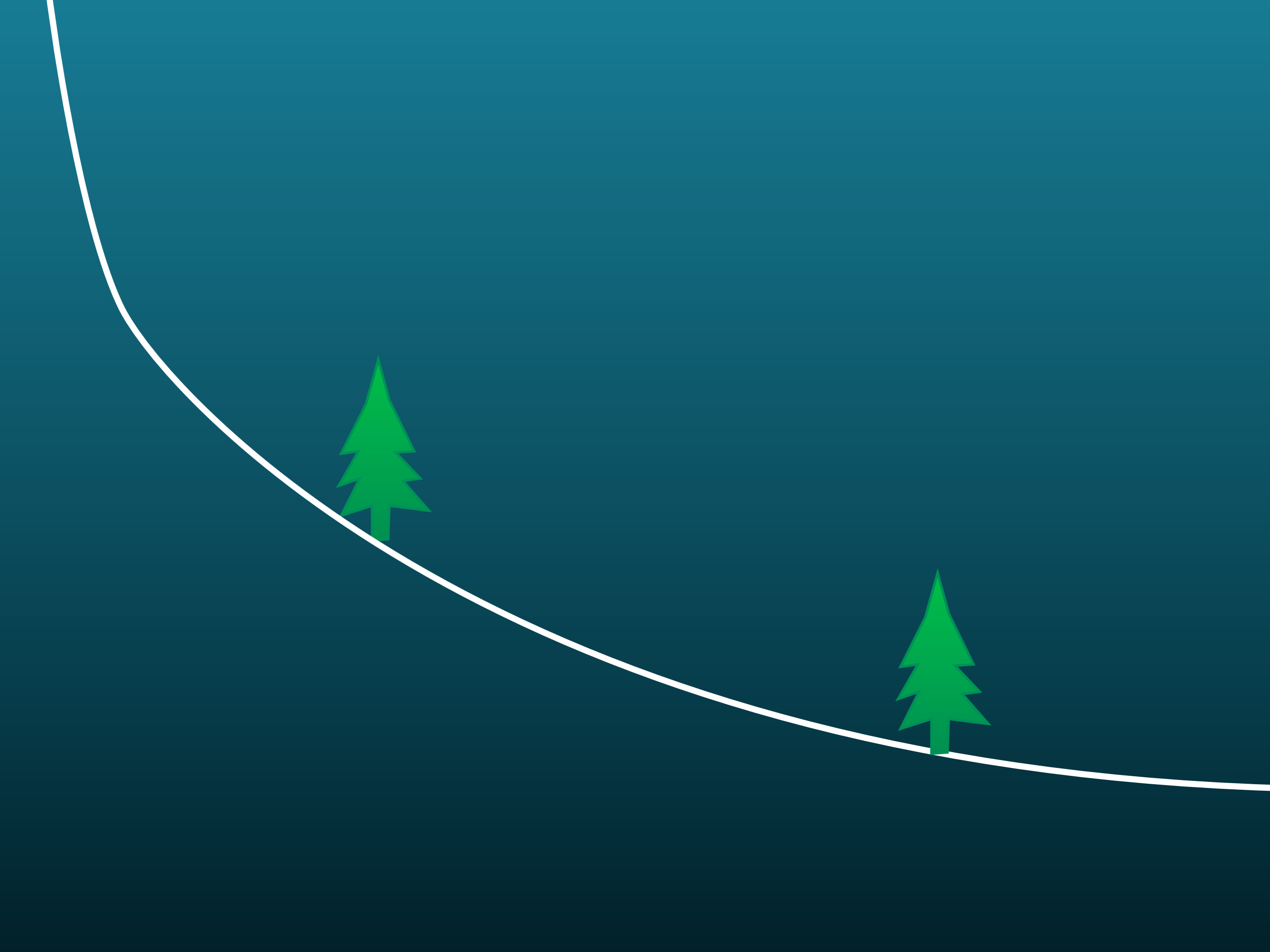
forums

bof's

irc









Regular events



<http://www.flickr.com/photos/heyrocker/5337481700>

Stories and references



<http://www.flickr.com/photos/isapisa/5630300229>

Transparency



***Communicate
the value of
contributions***



Yay, we
reached the top!
We're
awesomest!

***Progress and
milestones
matter***

**“Walk
the
talk”**



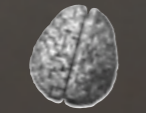


The money case for KM

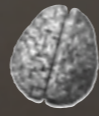


Capital
Intellectual ~~Property~~

“It’s all about the the brains!”



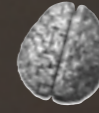
\$\$\$



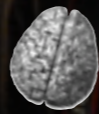
\$\$\$



\$\$\$



\$\$\$



\$\$\$

***Your intellectual capital
goes home at 5***

Assets

Staff

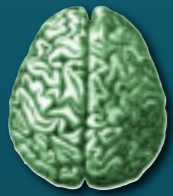


***Know-
ledge***



Brand

Customers



Tacit

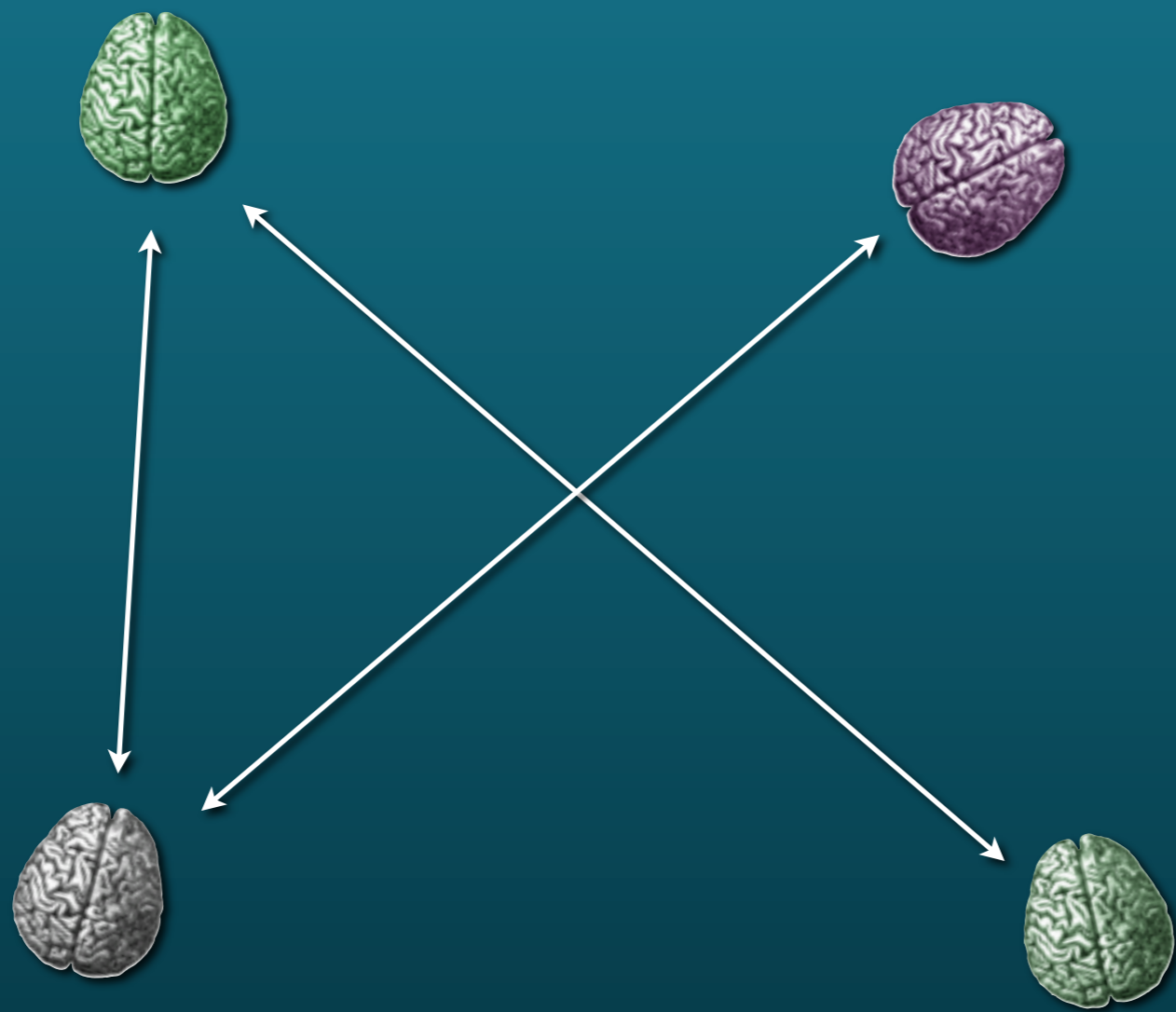


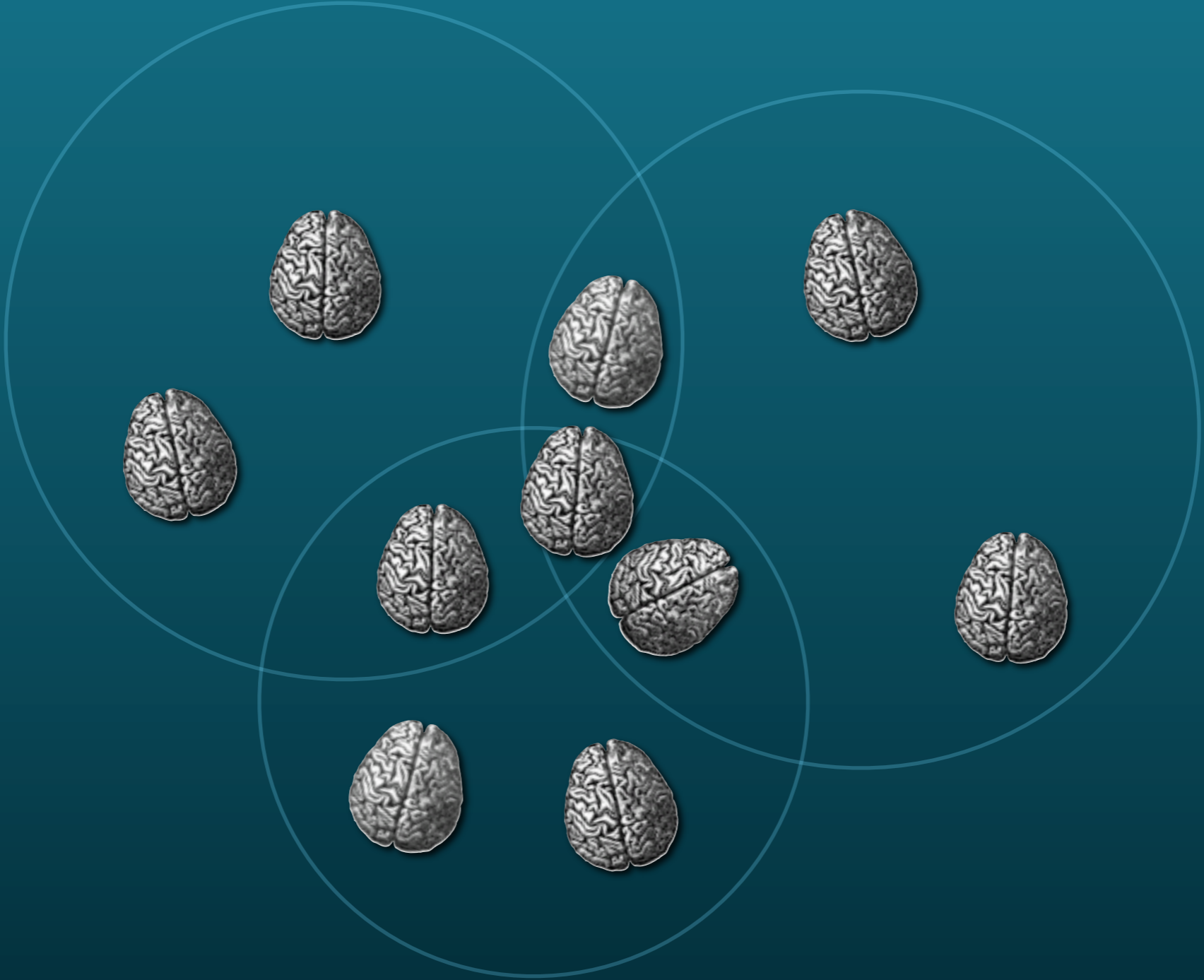
Explicit



Embedded







Economist Intelligence Study Foresight 2020

***“Five key trends to determine competitiveness
in the coming decade”***

Knowledge management

Globalization

Demographics

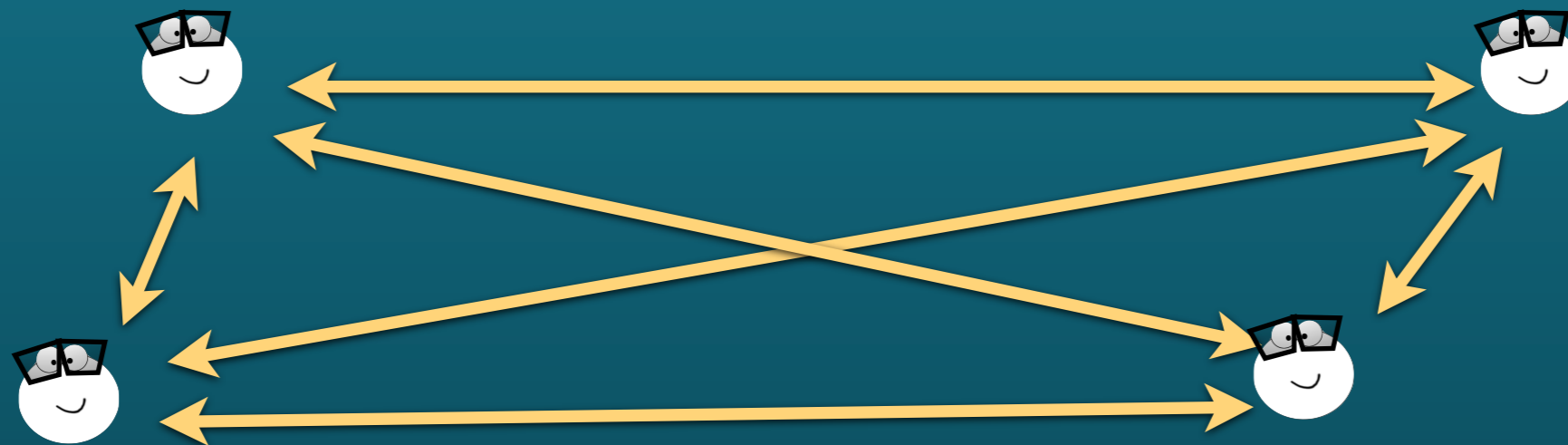
Atomization

Personalization

Getting started

- ✓ **Constant pain**
- ✓ **Can be fixed with few resources**
- ✓ **Can be fixed easily**
- ✓ **Will show results quickly**

***Knowledge is
strategically
important***



Community of Practice



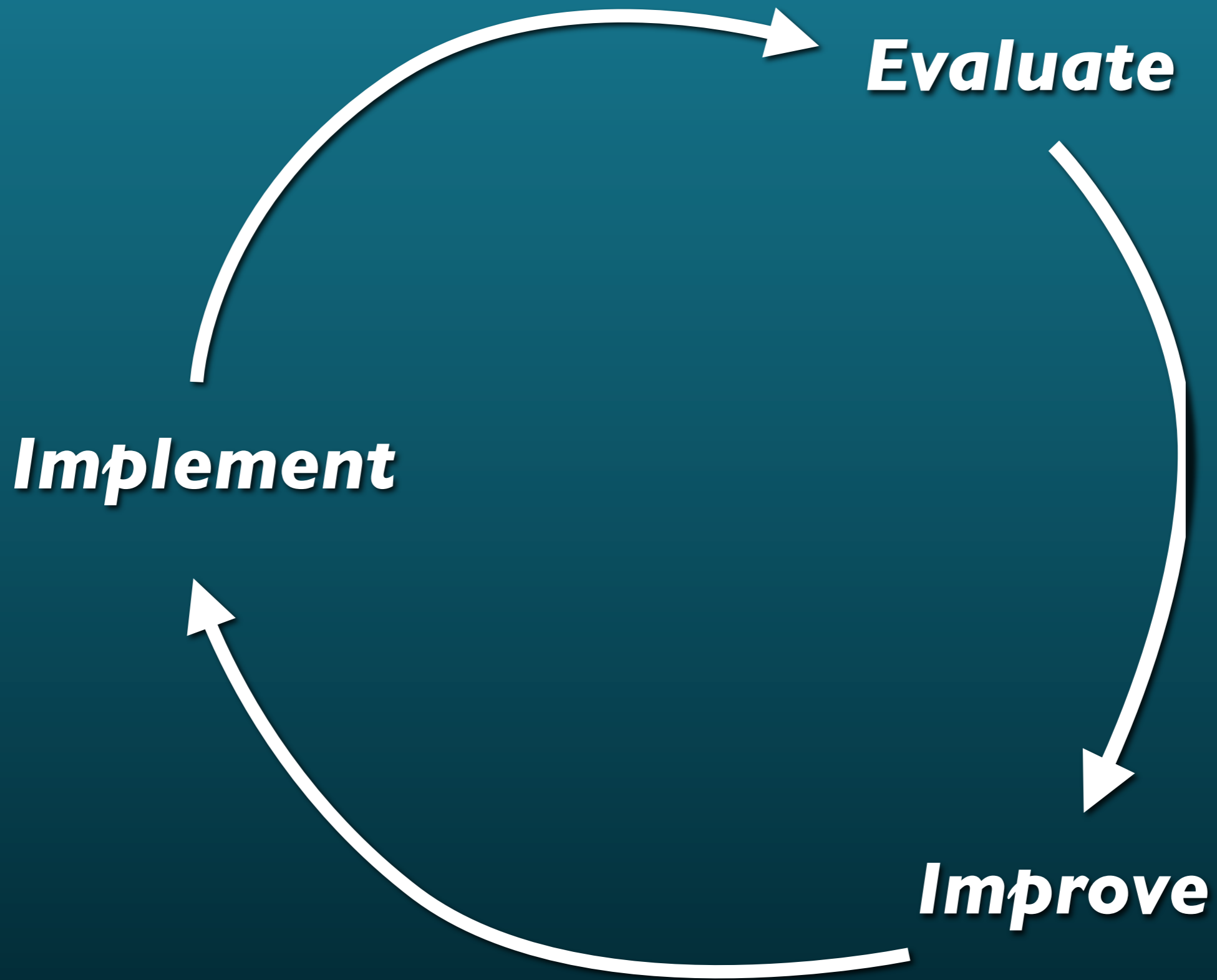
New routine

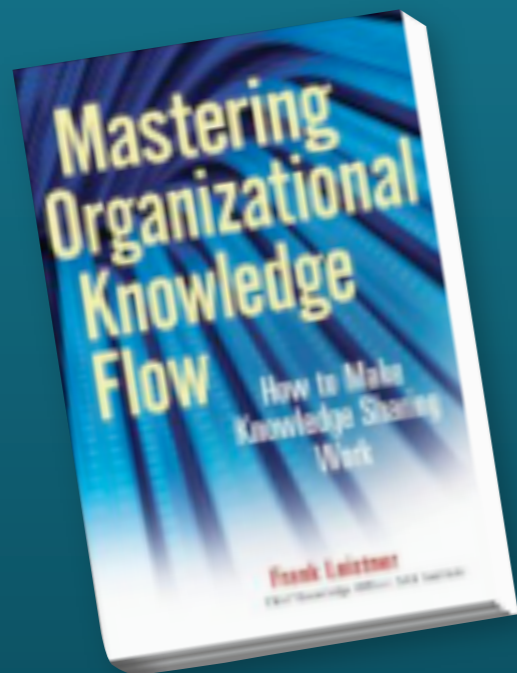
- ✓ do this
- ✓ then that
- ✓ but don't forget
this either
- ✓ or this for that
matter

Checklist



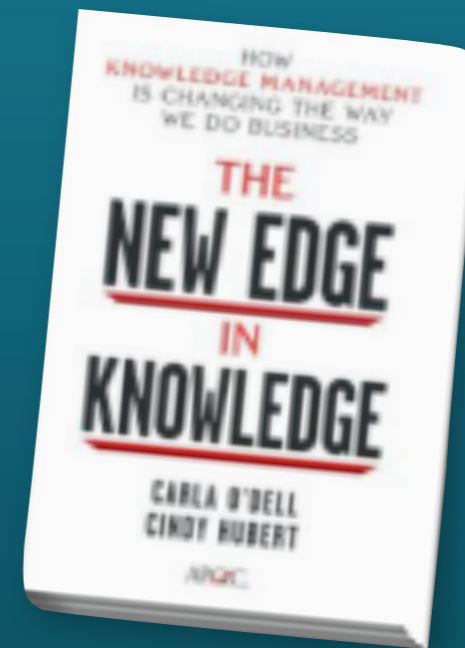
Tool





***Mastering
Organizational
Knowledge Flow***

Frank Leistner



***The New Edge in
Knowledge***

Carla O'dell, Cindy Hubert

Summary

- ✓ Understand the problems you have as a result of a lack of flow of knowledge
- ✓ People, not tech, are key to making knowledge flow
- ✓ Embed knowledge in your culture and processes and don't rely on a few knowledgeable superstars
- ✓ Knowledge is your most valuable asset
- ✓ Fix the most painful problems first, start simple, evaluate and improve as you learn
- ✓ Being transparent about the value and use of knowledge motivates people to contribute

Thank you for listening!

We're hiring! UX'ers,
developers, product owners
and more! Talk to me.

email jakob@nodeone.se

twitter <http://www.twitter.com/realsolipsist>

drupal.org account <http://drupal.org/user/37564>