

第5屆 FEDAY 2019.09.21 / 成都





































Balanced development in large teams

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FEDAY, 21st September 2019, Chéngdū

大型团队中开发的平衡性

9: 30 Vladimir Grinenko

当产品足够大时,开发者们容易走向极端:

- code is beautiful → releases are rare
- 代码优美 → 发布缓慢
- 流程上花费的精力太多 → 开发上花费的精力太少
- 发布频繁 → 代码质量堪忧
- 高的测试覆盖率 → 产品变得笨重,难以改变

除了这些之外:

- 关注UI速度 → 不追求增加更多特性
- 想提升 UI → 没有时间思考代码架构

在Yandex,我们遇到了所有这些问题并找到了我们的解决方案,我们会把这些好的 解决方案——分享给大家。



Vladimir Grinenko

- > Head of common components development at Yandex
- More than 40 developers in 5 teams in 3 cities
- > Open source contributor



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over 10 000 employees

About 50% software developers



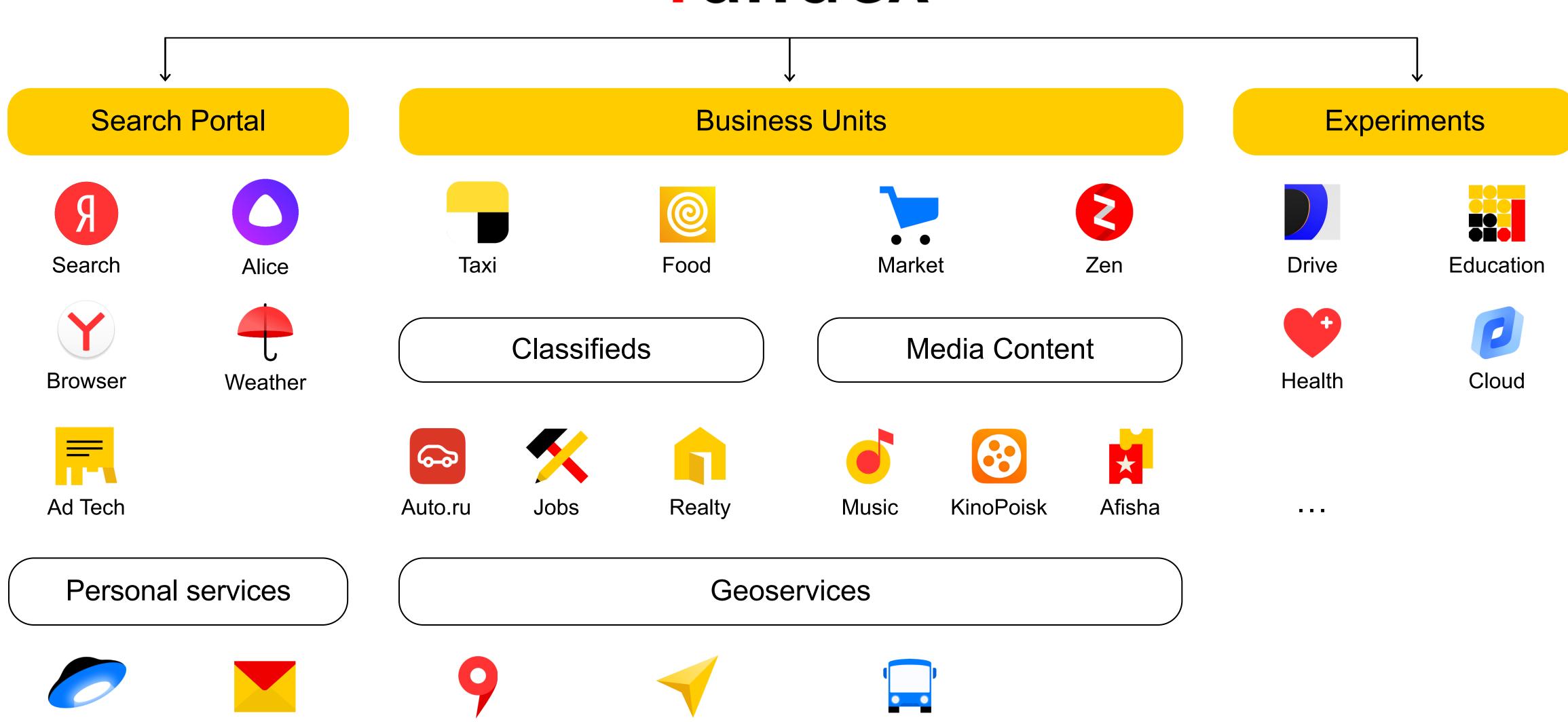
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Yandex services

- Web: search, browser, music, social...
- > E-commerce: Market, Beru...
- > Taxi and carsharing
- Food delivery
- Hardware: Station, Phone, Auto
- Al: Alice, self-driving cars...

Vandex



Transport

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Navi

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Справочник Статистика Сувениры Такси **Т**акси для бизнеса Телепрограмма Телефония Технологии Толока Форм Фотки Штрафы Яндекс.DNS Яндекс.Авто Яндекс.Браузер Яндекс.ОФД Яндекс.Учебник **AppMetrica XML Yandex Data Factory**

Едадил

/ Ж/д билеты

Здоровье

Знатоки

Интернетометр

Календарь

Картинки

Радар

Радио

— Расписания

Рекламная сеть

Реклама

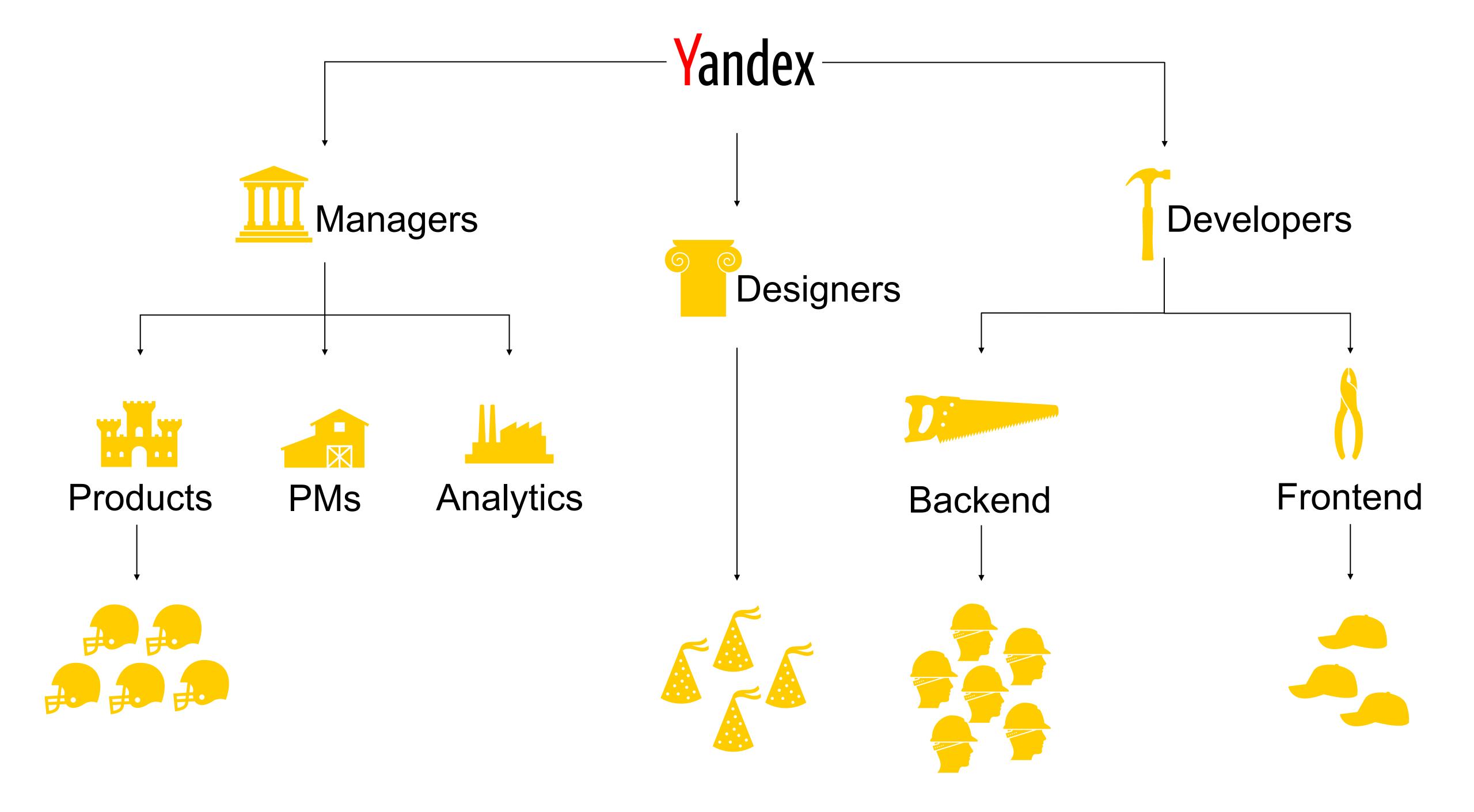
Репетитор

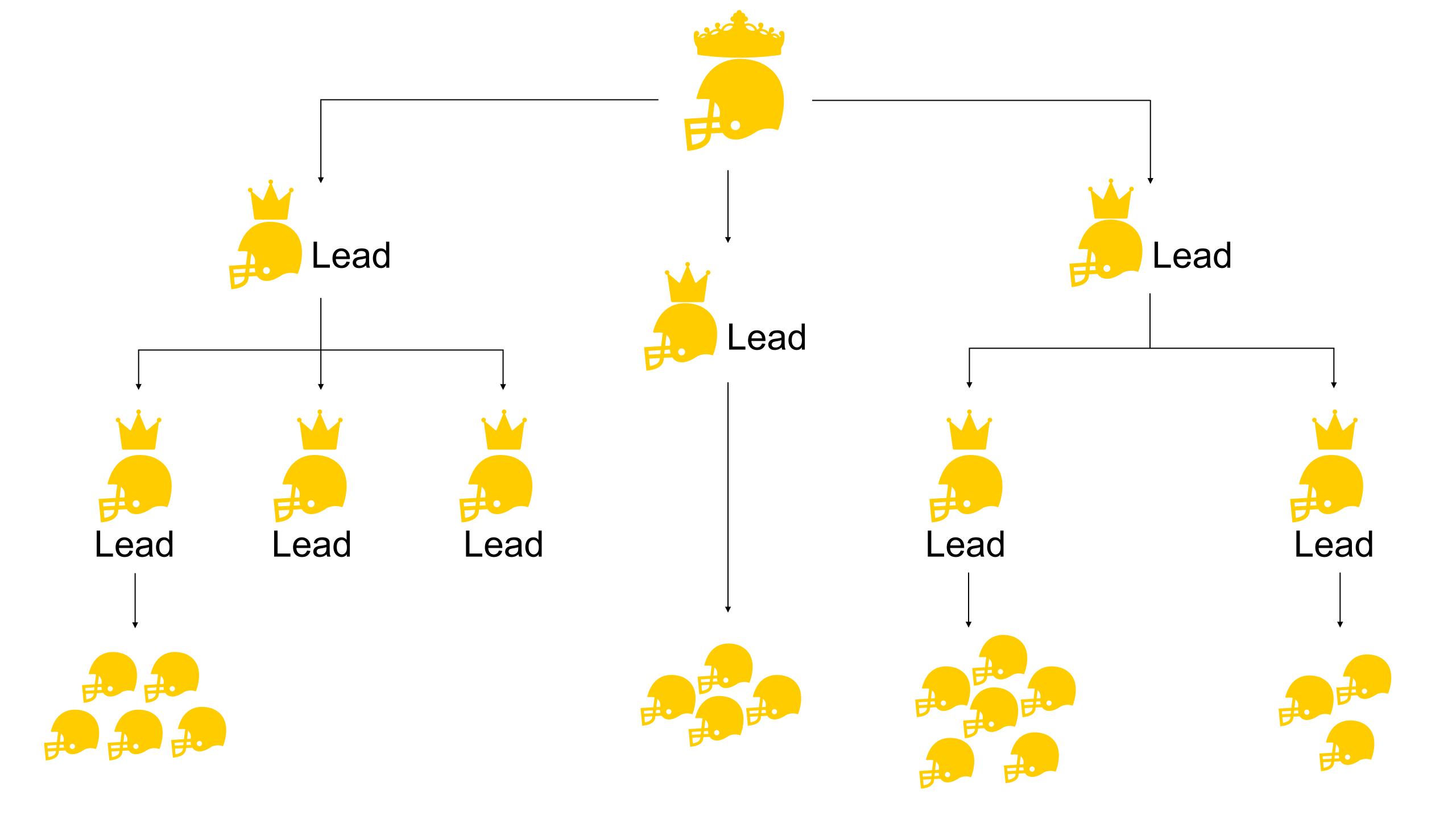
Huge is difficult to manage

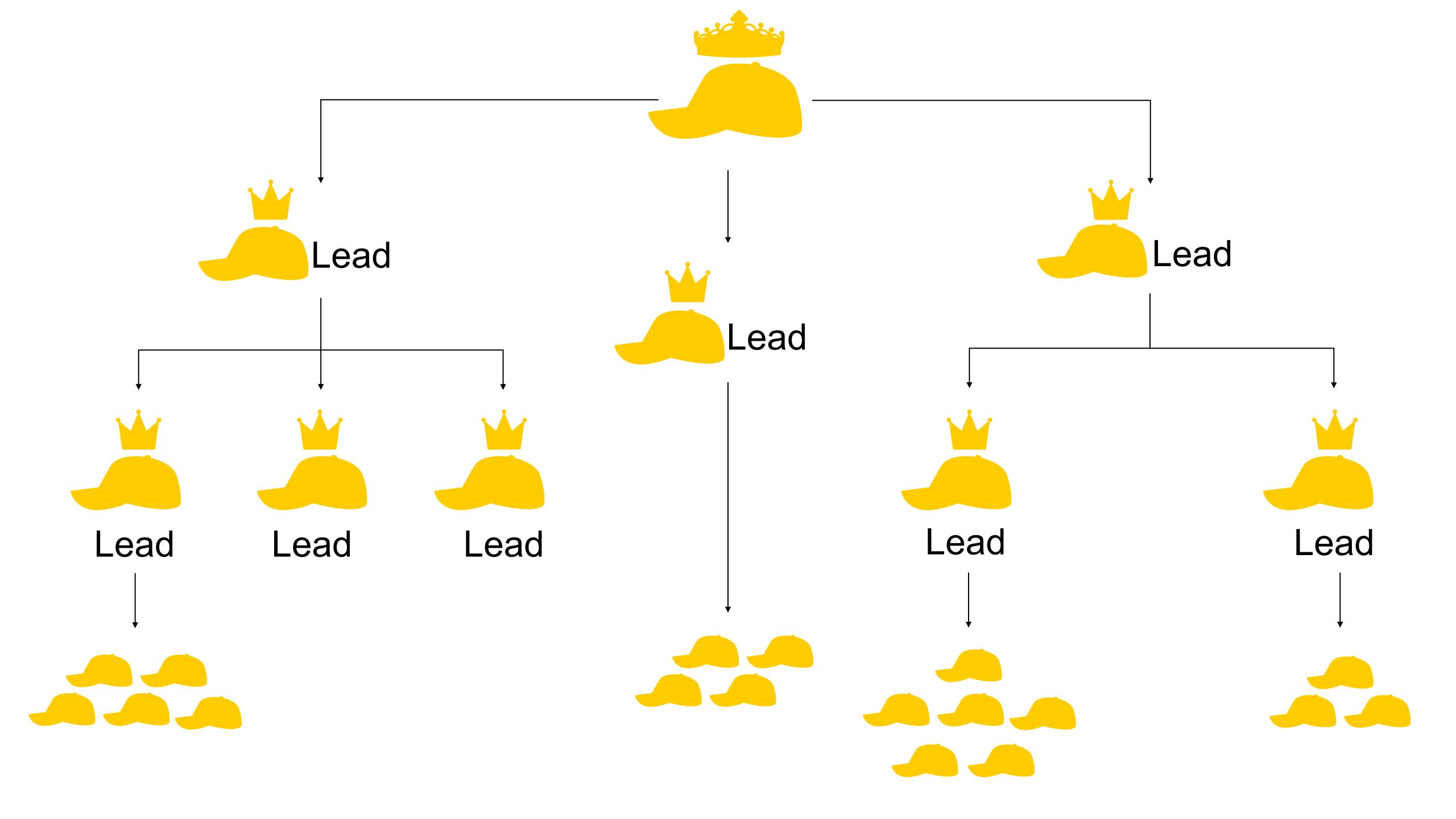
Long time ago

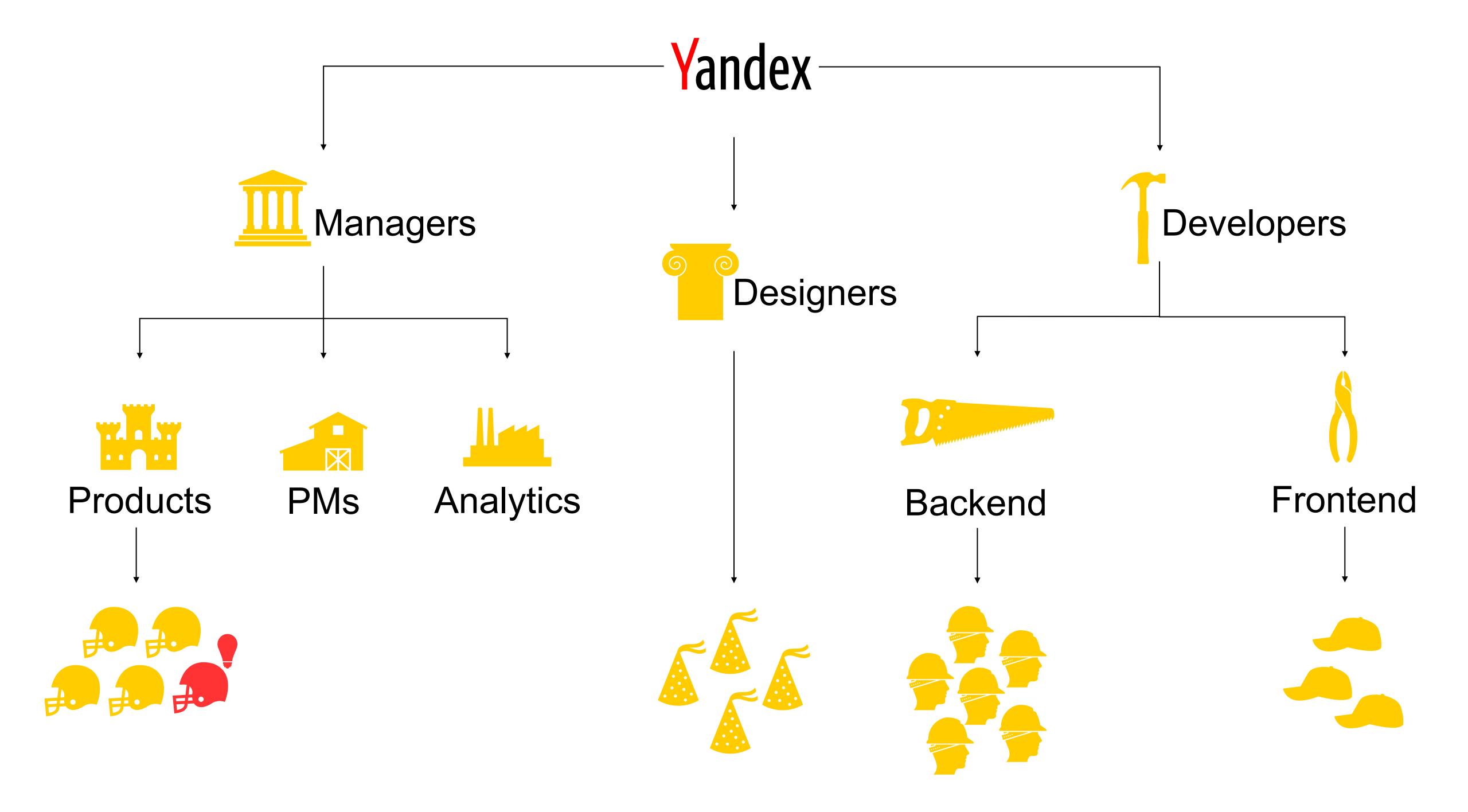
specialization first

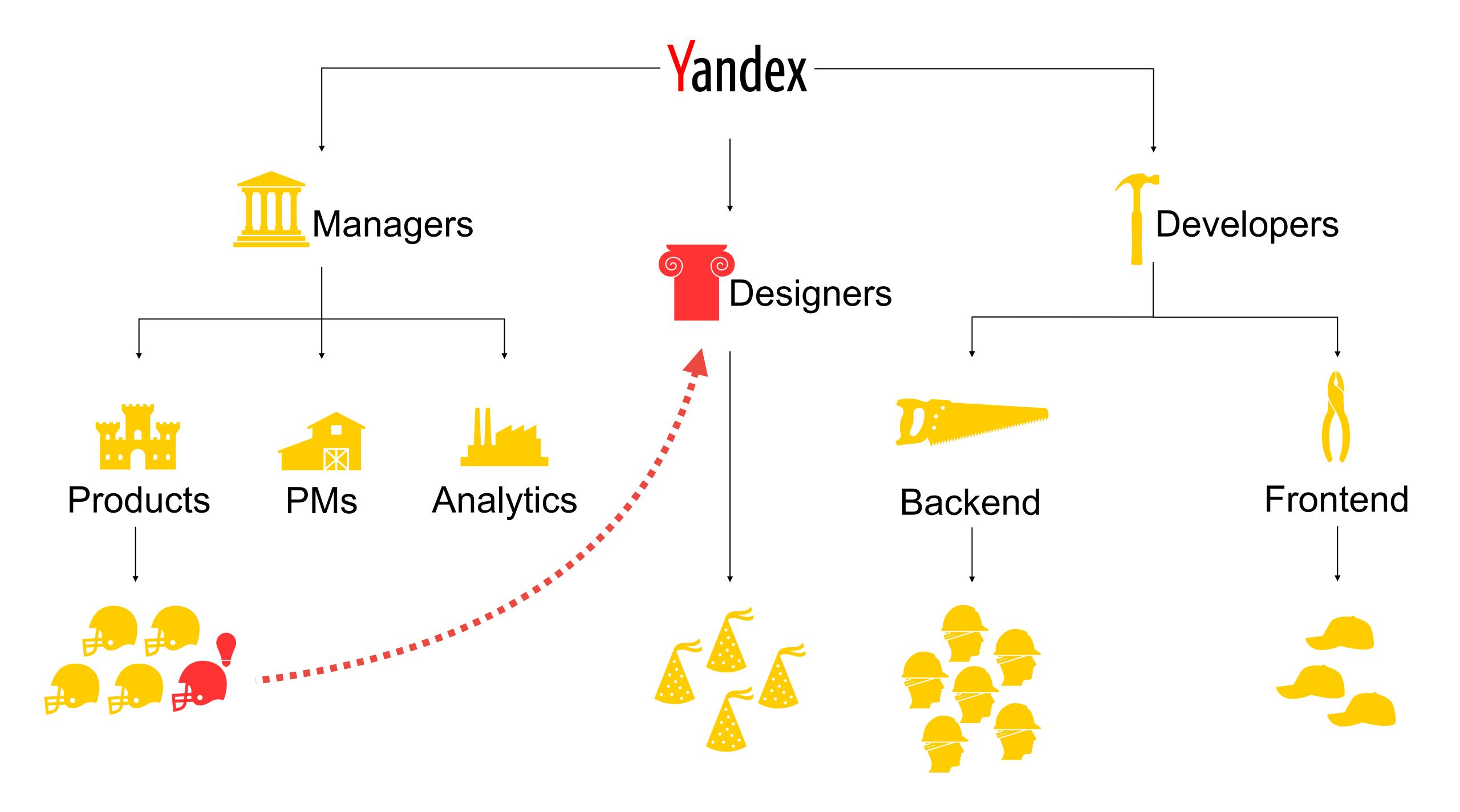
developer is the king

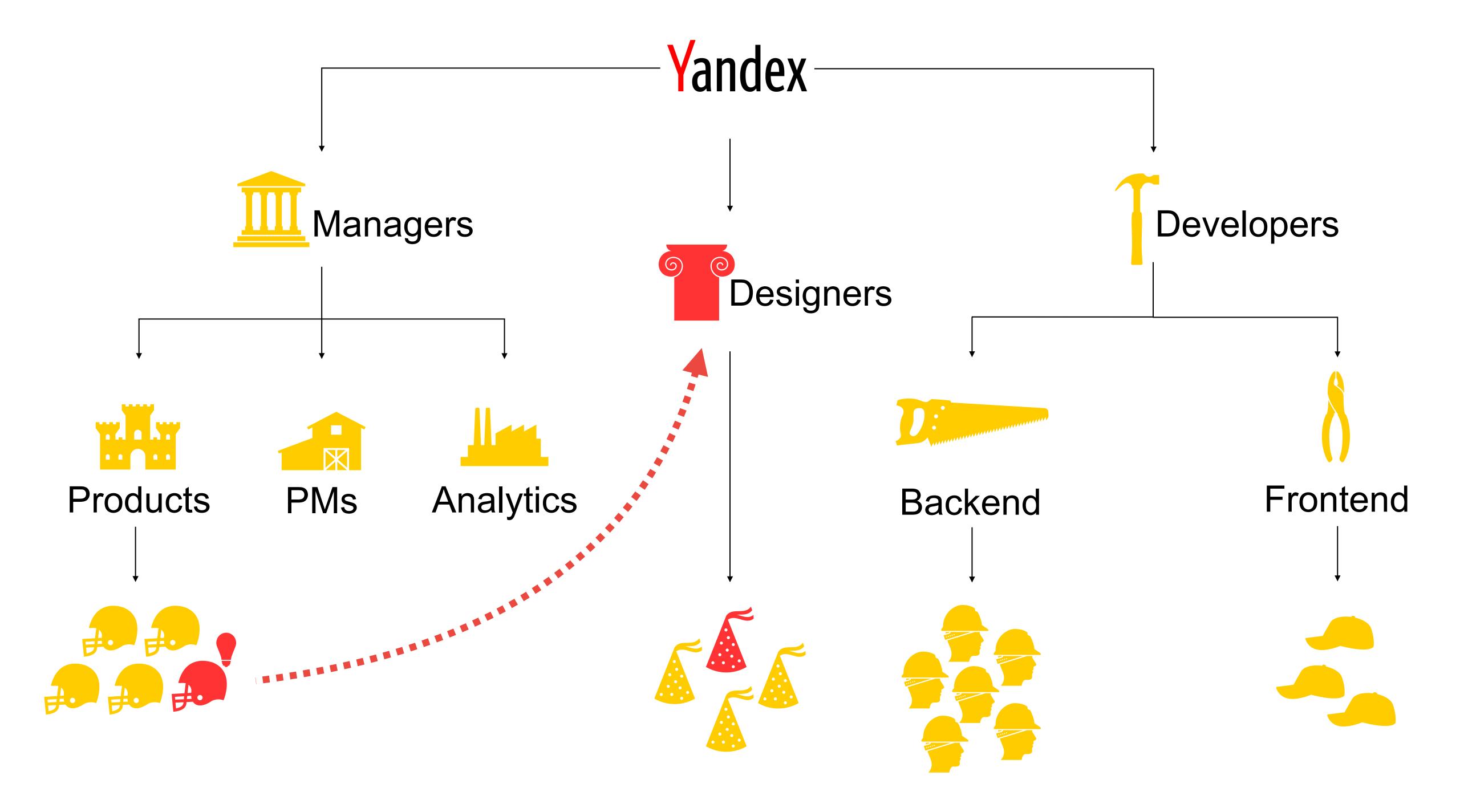


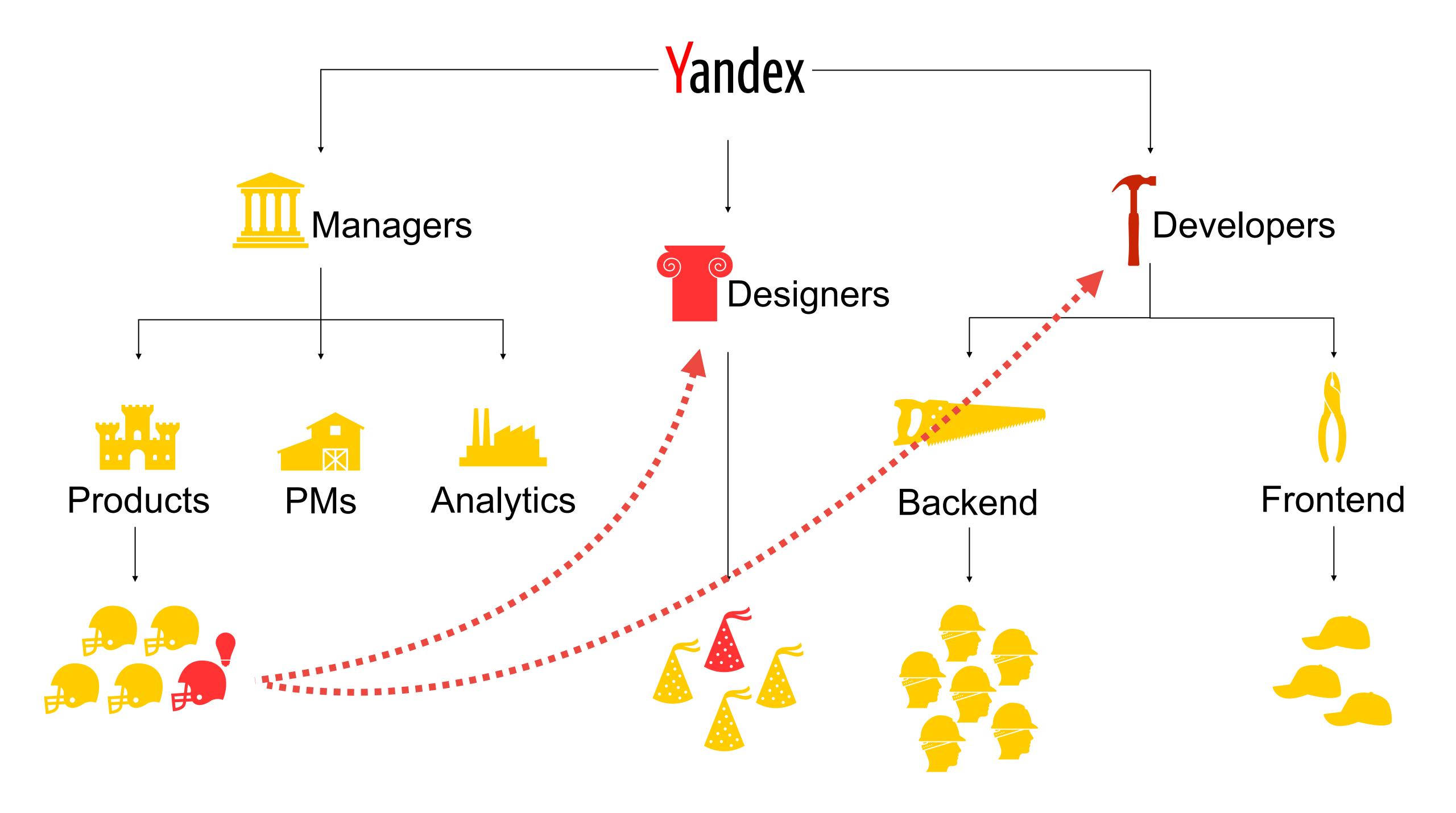


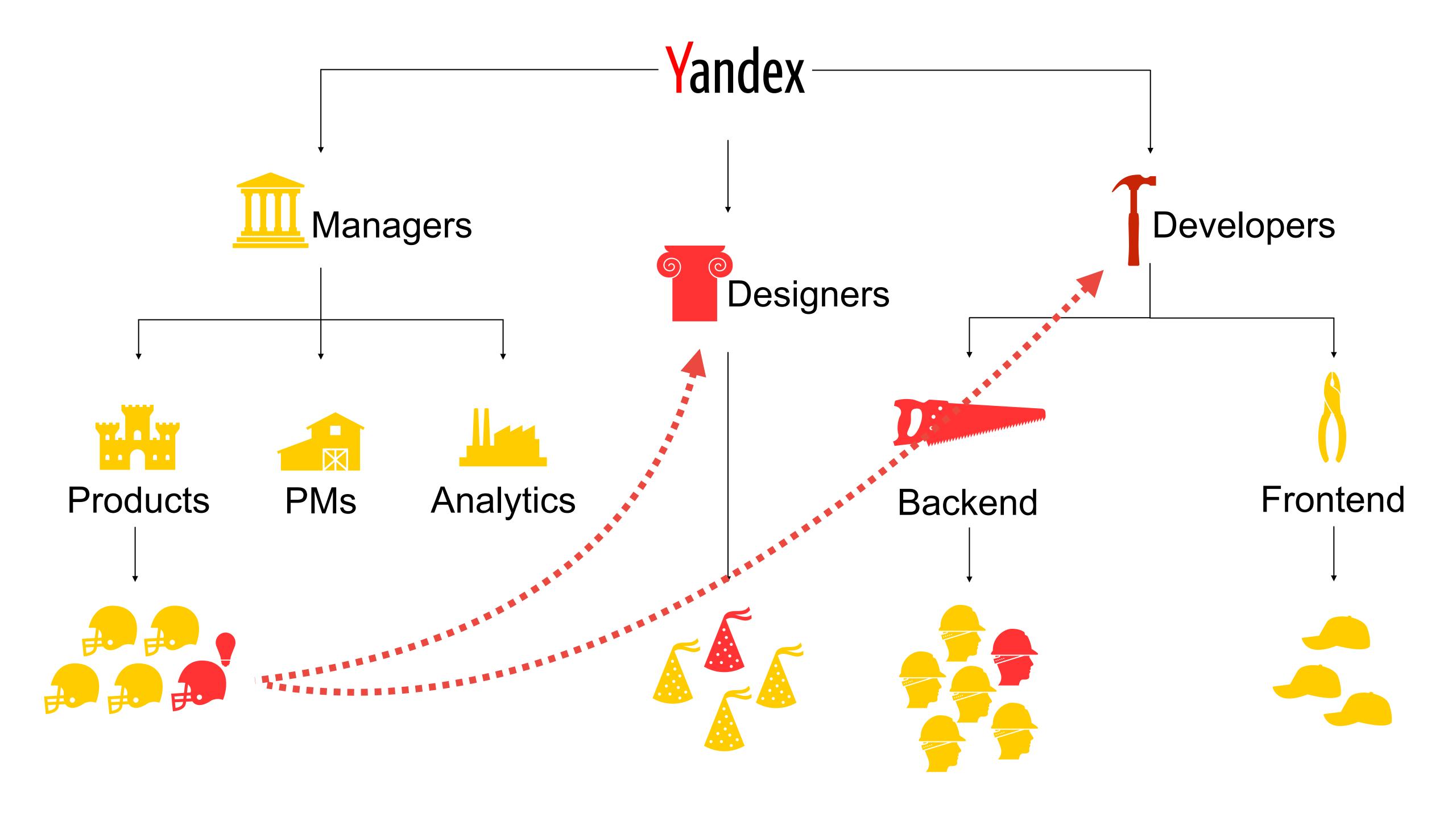


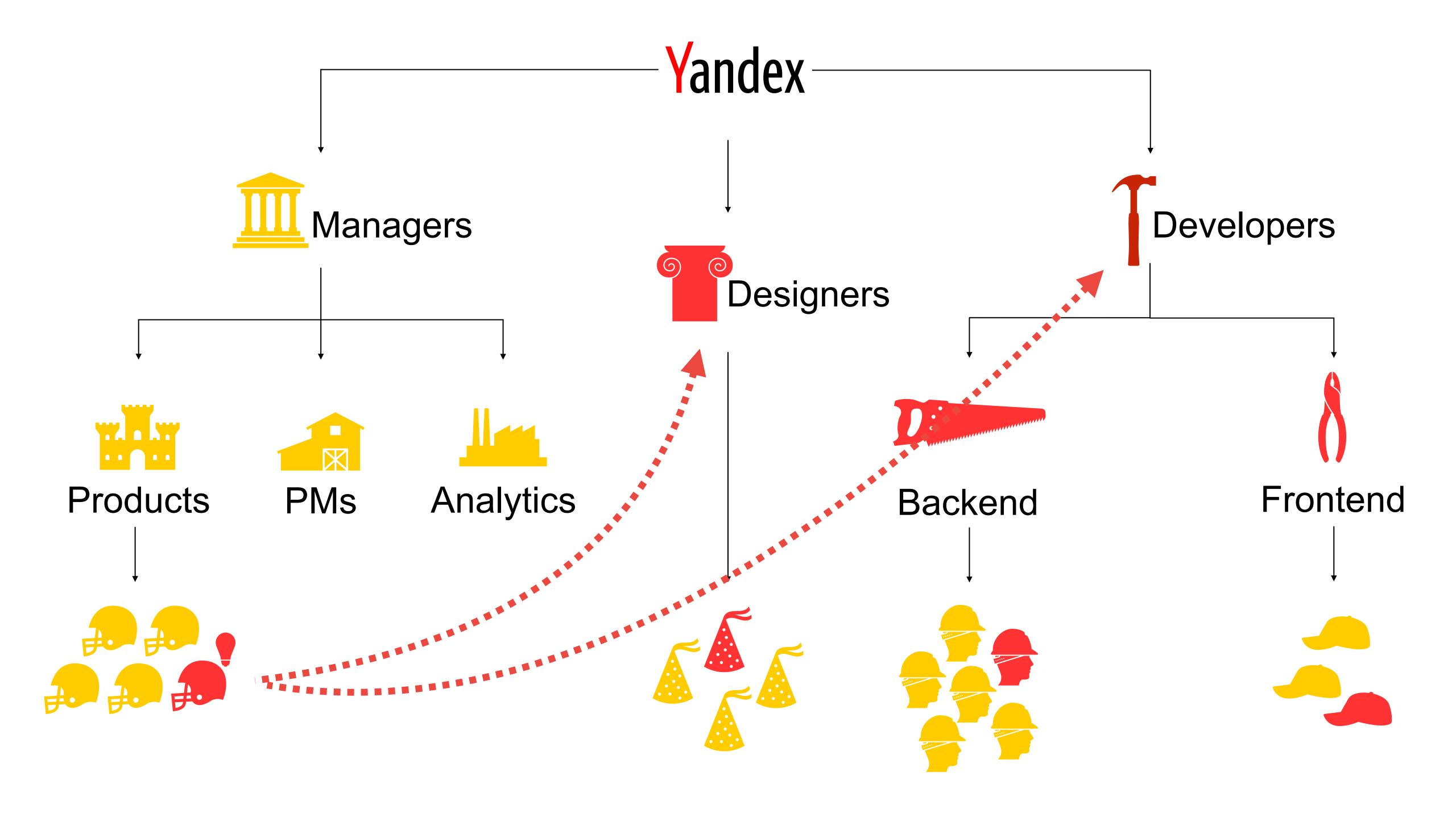












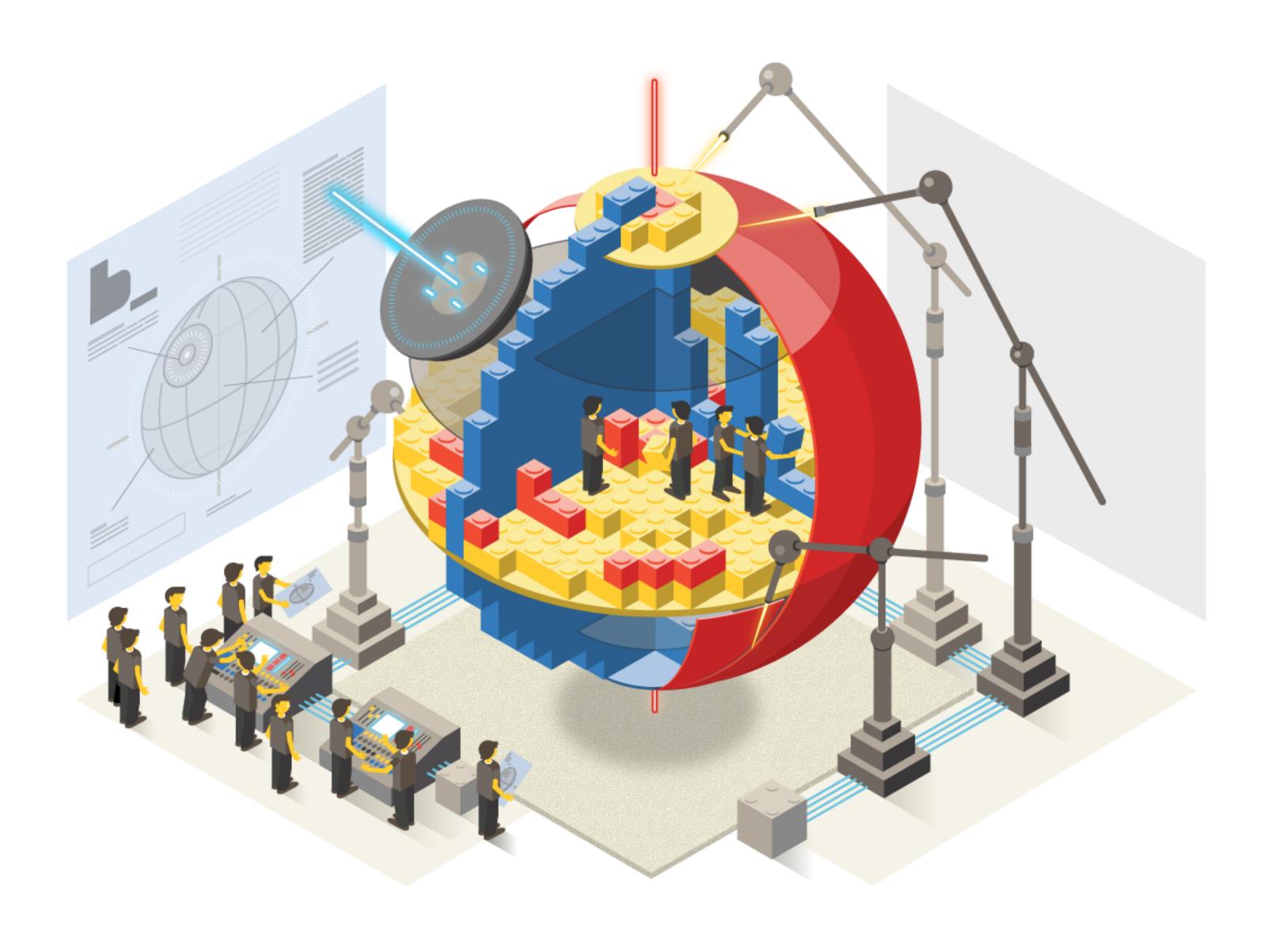
How it works from dev POV

- > Developers are assessed by the heads of developers
- > Tech goals is priority
- > Technological expertise is growing
- A lot of effort is invested in R&D

Issues

- > Developers are not responsible for the product
- > Products can not force developers to do tasks they don't like



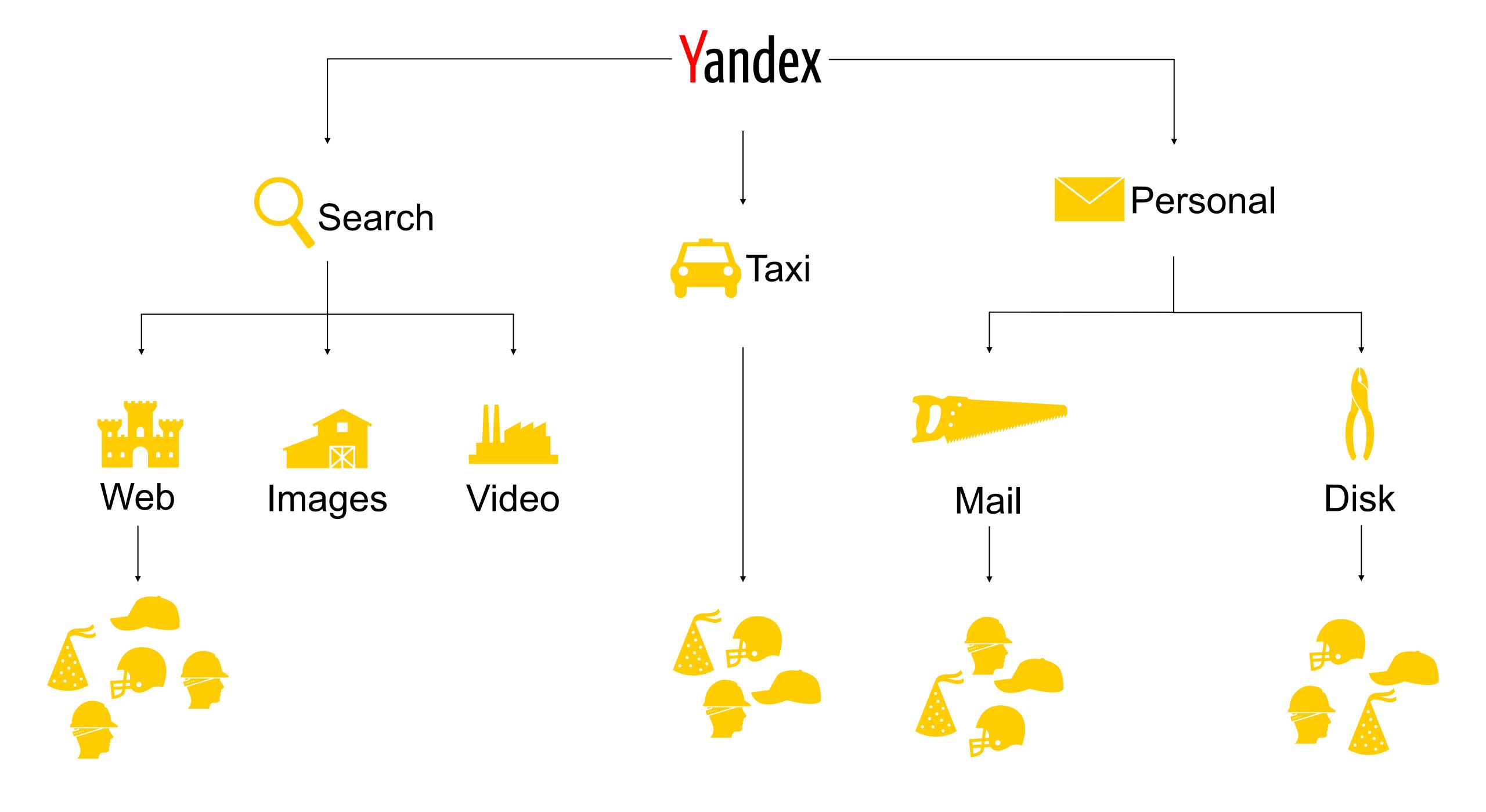


The company grows x2 YoY

Next step

product first

manager is the king



Issues

- No code reuse
- No experience sharing
- Manager can hardly understand code quality

No balance

- Code is beautiful → releases are rare
- a lot of attention for processes → less attention to development
- frequent releases → bad code
- high tests coverage → hard to change the product
- > care about UI speed → not interested to add more features
- **)** wanted to improve UI \rightarrow no time to think about code architecture



The company grows x2 YoY

Common scheme



SCRUM

- > complete teams
- > everybody is responsible for the result
- > reasonable backlog
- > regular shipping
- and all these things

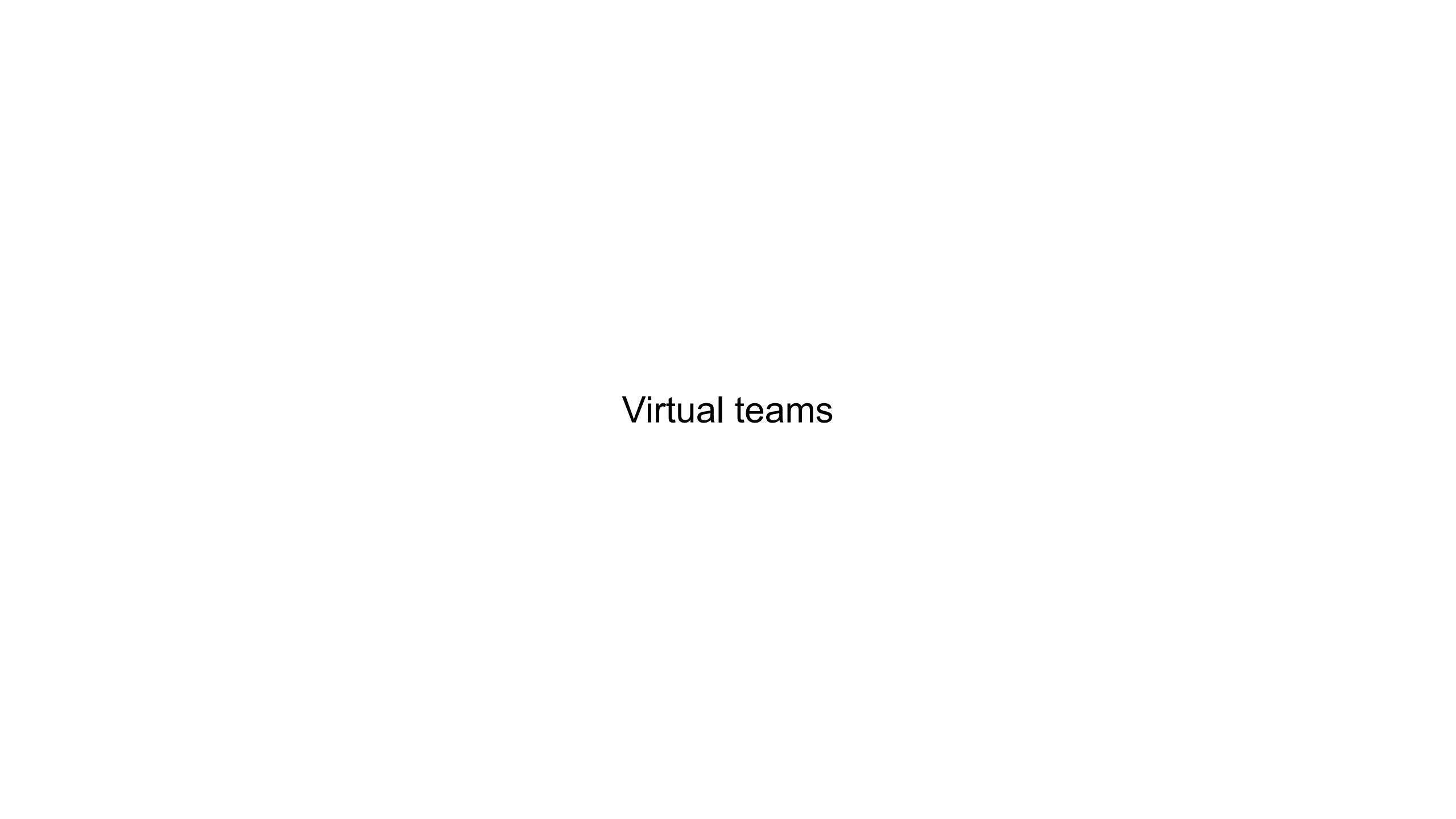
Issues

- > changes regularly
- employee development *history* is lost

Our current solution

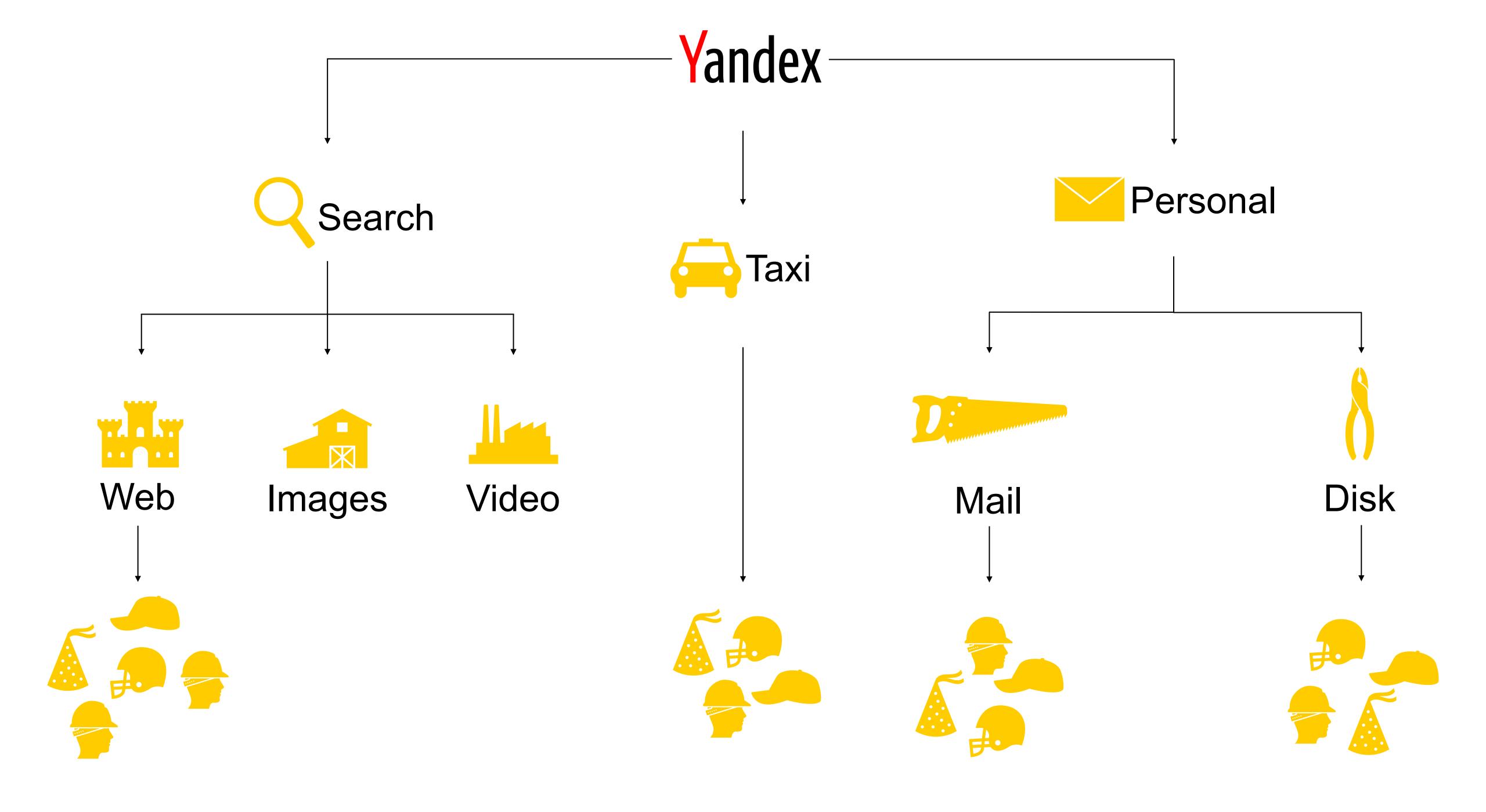
consistent staff structure

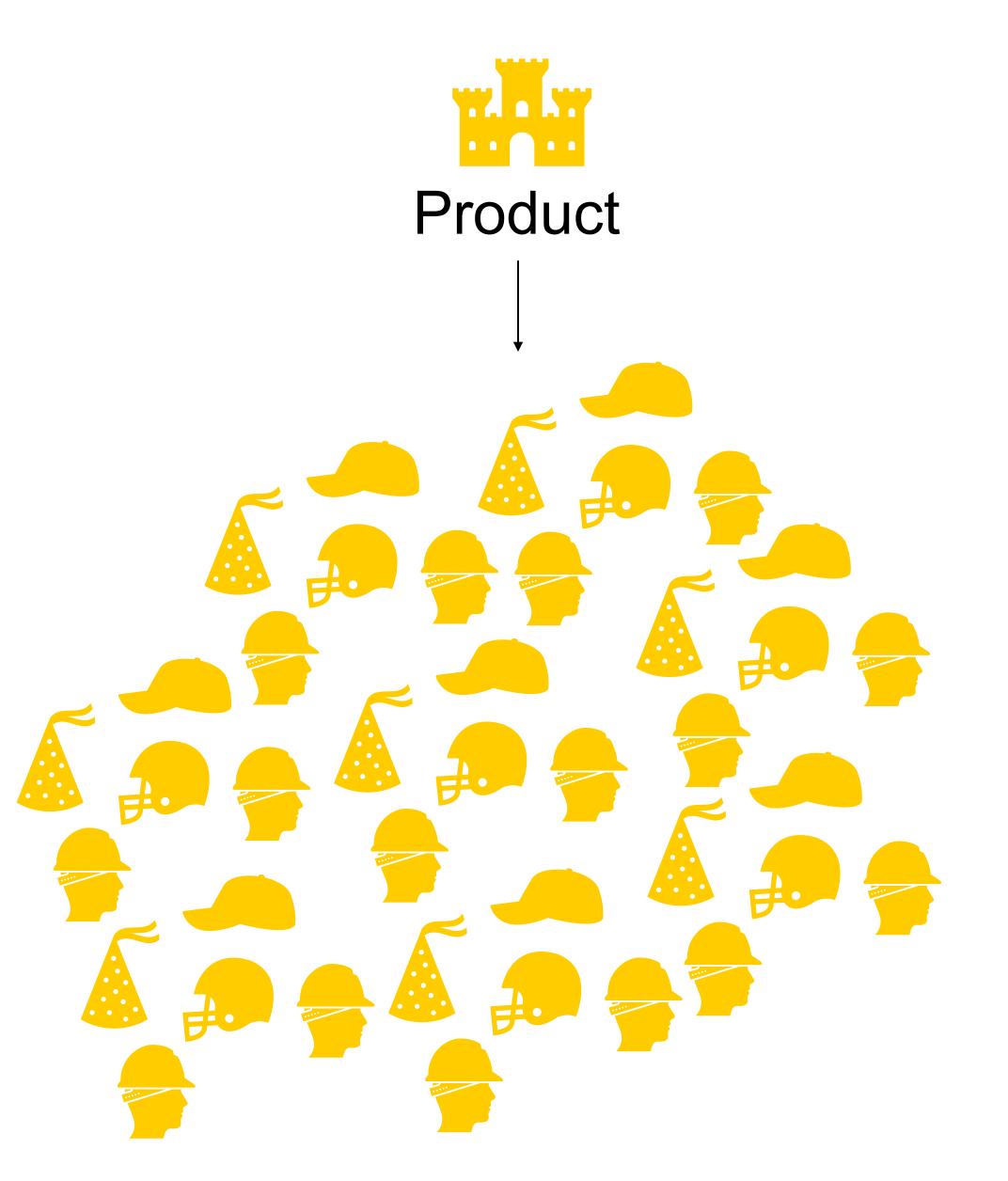
long term relations between leader and subordinates



V-teams

- temporary
- agile
- > focused



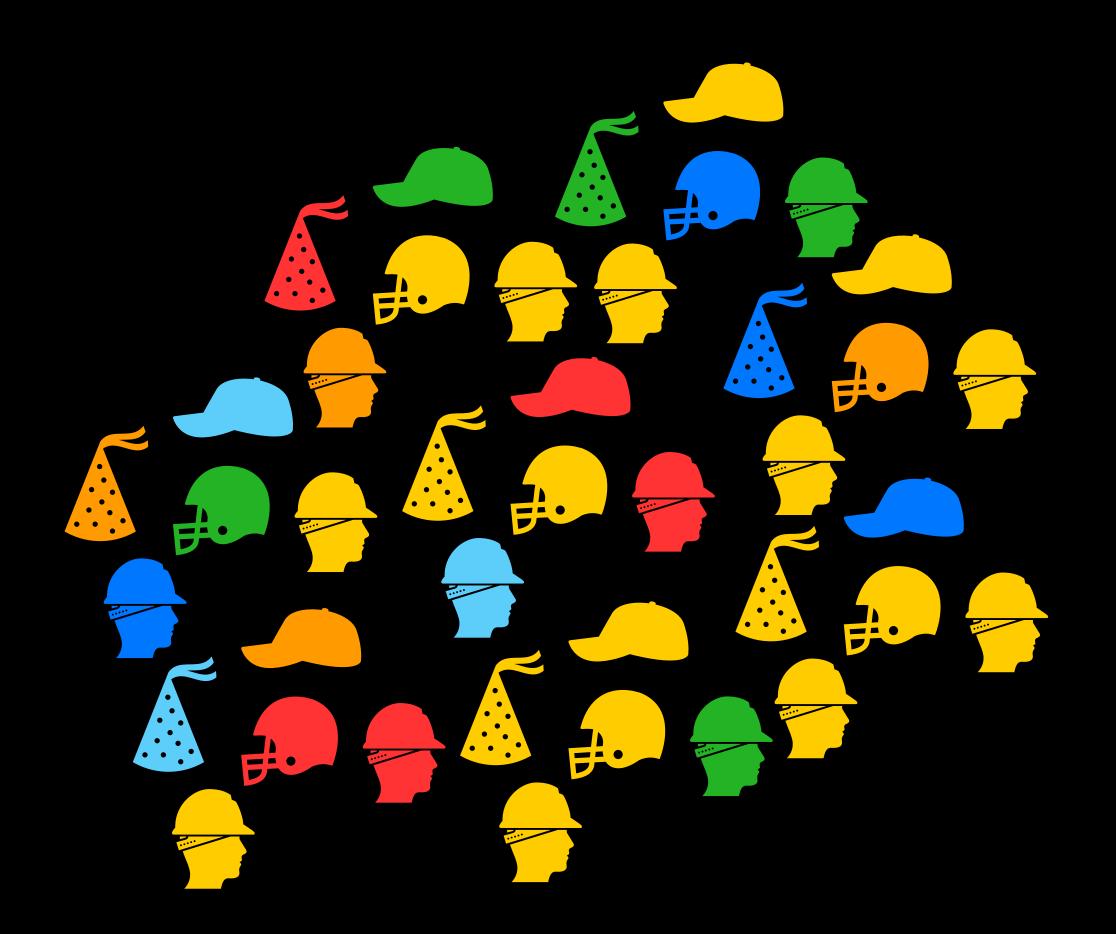


care about UI speed



care about new features

responsible for test coverage



responsible cycle time

care about code architecture

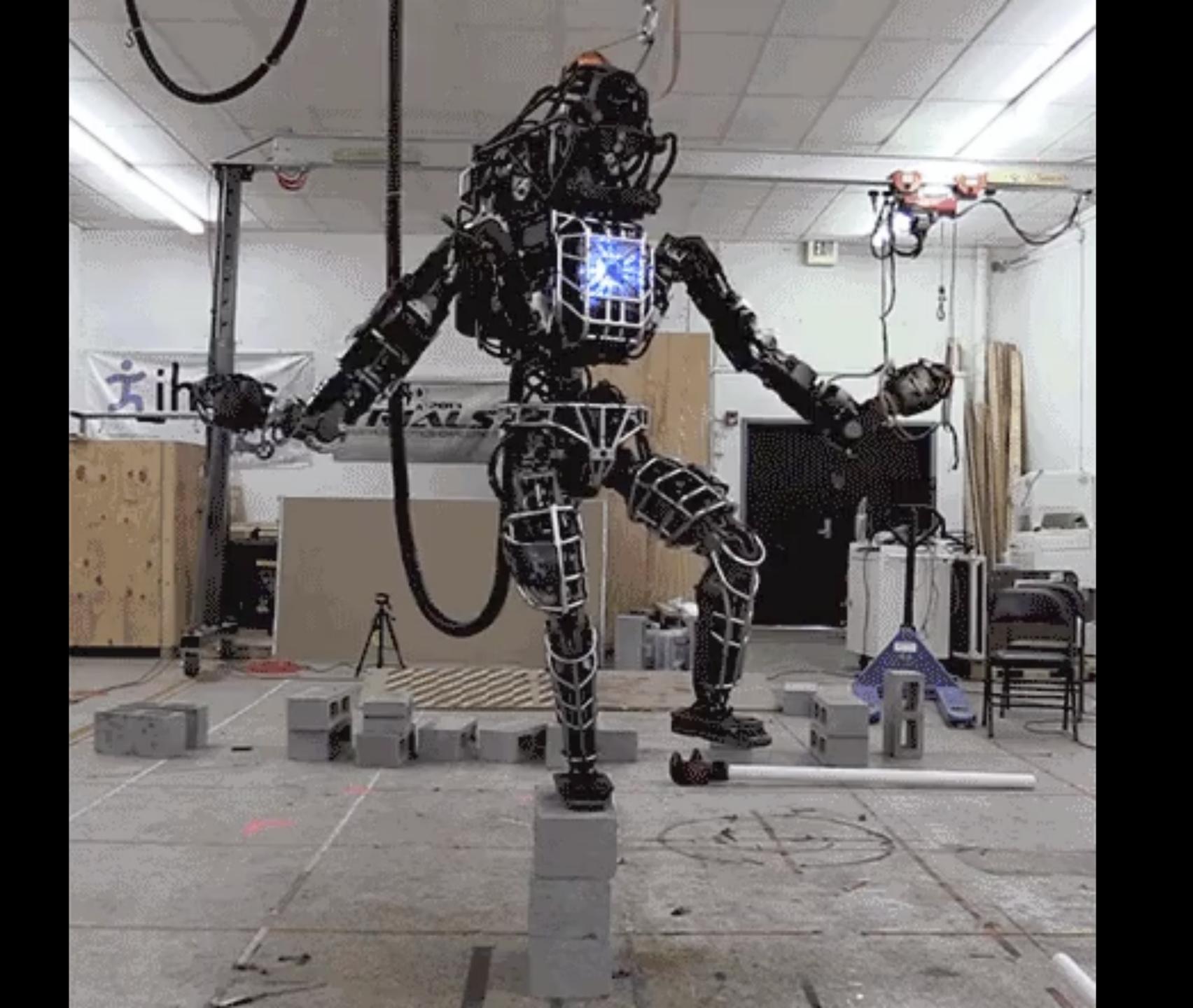
want to improve UI

Roles

- staff leader
- > v-team leader

Assessment

- decision in comparison
- Collectively
-) goal system



Additional profits

- > documentation
- > consistency
- > focus but with common responsibility
- > easy to switch people between projects
- > experience sharing
-) growth zones
- > not boring ;)

Some issues

- > Still no one common center for developers
- Year and the code?
- Committees
- How to choose a team?
- > Bootcamp
- > How to interview?
- > Universal requirements

Summary

Summary

- > small teams are fast and flexible
- > v-teams can balance product aspects
- > each team has to collaborate with others for better results
- > each team includes all the required specialists
- hiring process is not limited by team leader capacity
- hiring process is not limited by team leader location
- > v-teams help employee growth

Try it yourself





Thanks

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