How entrepreneurial motivation affects teamwork in Academic spin-offs



Team SK-II, Kim seminar, Tohoku Univ.

Harushi S.

Takuya K.

Syuya K.

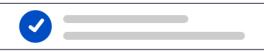
Have you had **any problem** when you working **with your teammates** in this **hard competition?**

Good teamwork is difficult to achieve !!

Morning style vs Midnight style

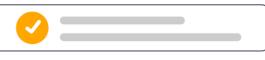
Outline

1. INTRODUCTION 2. LITERATURE REVIEW **3. METHODOLOGY** Image: A start of the start of 4. FINDING **5. CONCLUSION**



Outline

1. INTRODUCTION 2. LITERATURE REVIEW **3. METHODOLOGY** 4. FINDING **5. CONCLUSION**



Innovation promotes our lives.

Academia

Industry

Government

Googleについて ストア



Gmail 画像 🚺 😽



Q How are findings in university made utilized in society?

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I'm Feeling Lucky

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How are findings in university made utilized in society?

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Q すべて 🗉 ニュース 🗋 画像 🖸 動画 📿 ショッピング : もっと見る 設定 ツール

約 352,000,000 件 (0.48 秒)

Did you mean : <u>Academic Spin-off</u>?

www.nationalmssociety.org > Research ▼ このページを訳す

How and Why Do Scientists Share Results | National Multiple ...

"Peer reviewed" means that the paper is analyzed by fellow scientists, who evaluate the methods **used** and identify any ... projects in peer-reviewed journals enables the scientific and medical community to evaluate the **findings** themselves. ... Researchers' publication records carry a great deal of weight when they apply for **academic** posts or research grants, and in ... By accepting ...

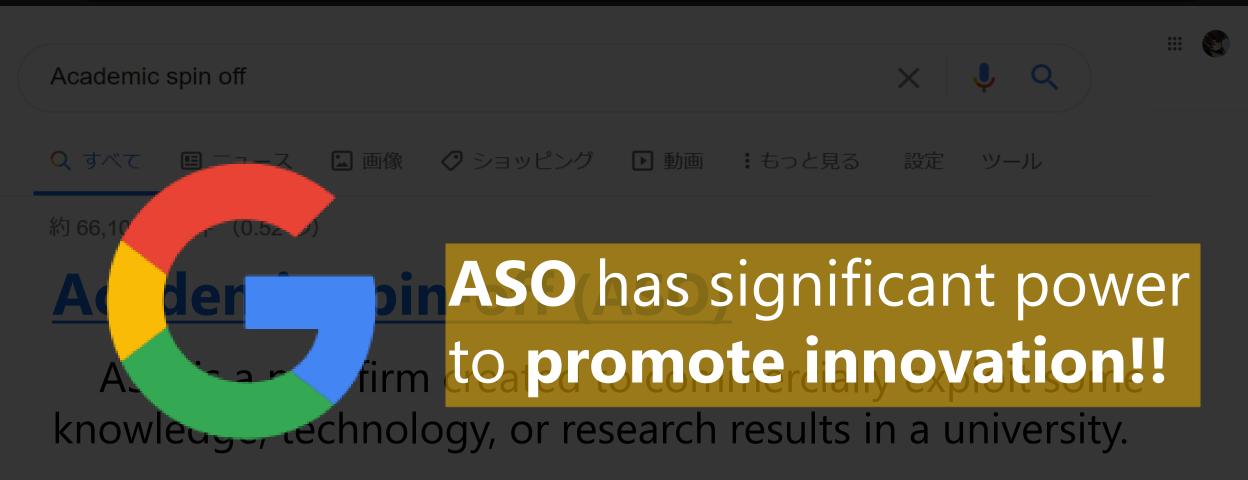
esajournals.onlinelibrary.wiley.com > ...・このページを訳す

Scientific Writing Made Easy: A Step-by-Step Guide to ...

2016/10/03 — The Bulletin of the Ecological **Society** of America ... However, the ability to effectively communicate research **findings** is crucial for success in the biological sciences. ... that undergraduate students receive a solid foundation in scientific writing early in their **academic** careers. ... (2004) offers plenty of examples of effective communication strategies that are **utilized** ...

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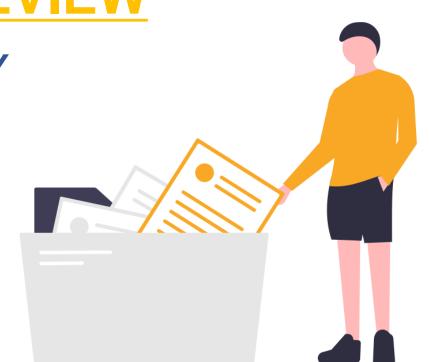
Qualitative research methods: when to use them and how to ...



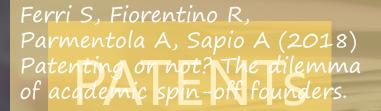
University spin-offs (also known as **university spin-outs**)^{[1][2]} transform technological <u>inventions</u> developed from <u>university research</u> that are likely to remain unexploited otherwise.^[3] As such, university/academic spin-offs are a <u>subcategory</u> of <u>research spin-offs</u>. Prominent examples of university spin-offs are <u>Genentech</u>, <u>Crucell</u>, <u>Lycos</u> and <u>Plastic Logic</u>. In most countries,



1. INTRODUCTION 2. LITERATURE REVIEW 3. METHODOLOGY 4. FINDING 5. IMPLICATION



ASO is **unique** because it derives from University.



Grimm HM, Jaenicke J (2012) What drives patenting and commerzialisation activity at East German universities? The role of new public policy, institutional environment and individual prior knowledge

etc....

Hayter CS (2013) Harnessing university entrepreneurship for economic growth: factors of success among university spin-offs

Rasmussen E, Sorheim R (2012) How governments seek to bridge the financing gap for university spin-offs: proof-of-concept, pre-seed, and seed funding

etc....

Human Resource

a UNIQUE CHARACTERISTICS

Academic x Industry in one team **Team-building process** in ASOs is still **unclear** (Yamada 2015)



1. INTRODUCTION 2. LITERATURE REVIEW **3. METHODOLOGY** 4. FINDING **5. CONCLUSION**



Research Flow

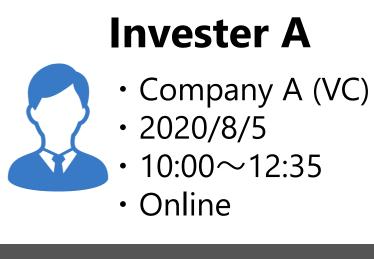
1st Interview 2 Venture Capitals

2nd Interview 5 Academic spin-offs

Research Flow

1st Interview 2 Venture Capitals

2nd Interview 5 ASOs



Invester B

- Company B (VC)
- 2020/8/17
- 10:00~12:00
- Online

There is **difficulty**

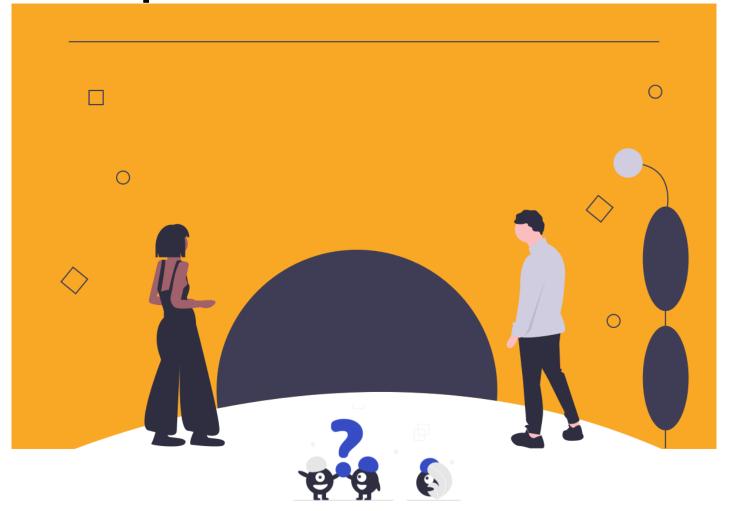
in balancing between **academia** and **industry**.

Колноничо

but still... we cannot figure out the **Internal Process** from outside.



Let's explore into real ASOs!!



Our Research Flow

1st Interview 2 Venture Capitals

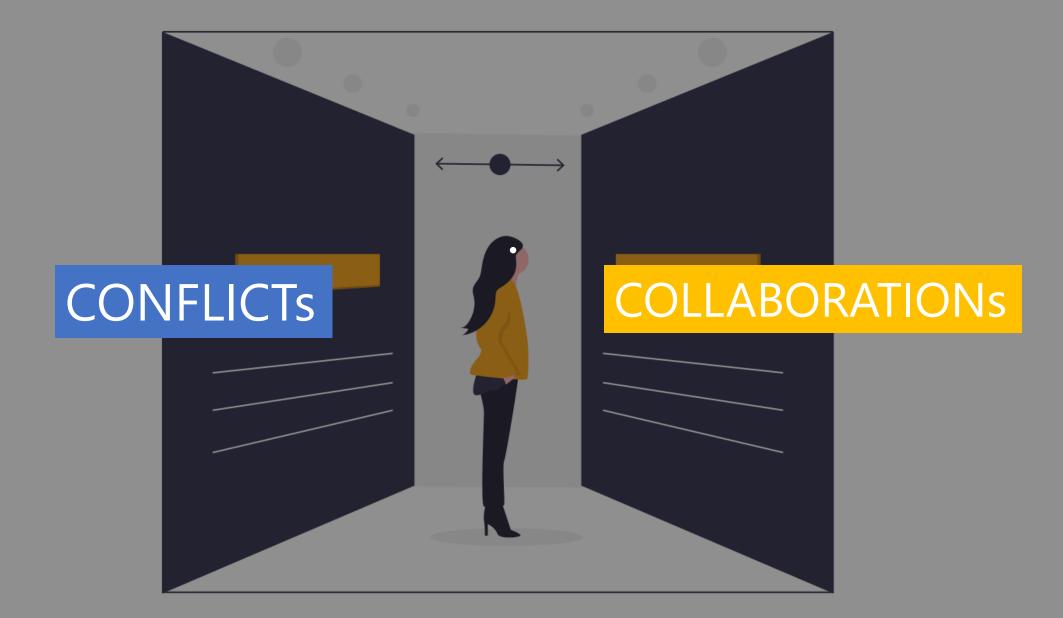
2nd Interview 5 ASOs



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1. INTRODUCTION 2. LITERATURE REVIEW 3. METHODOLOGY **4. FINDING 5. CONCLUSION**

There are actually CONFLICTS!!



















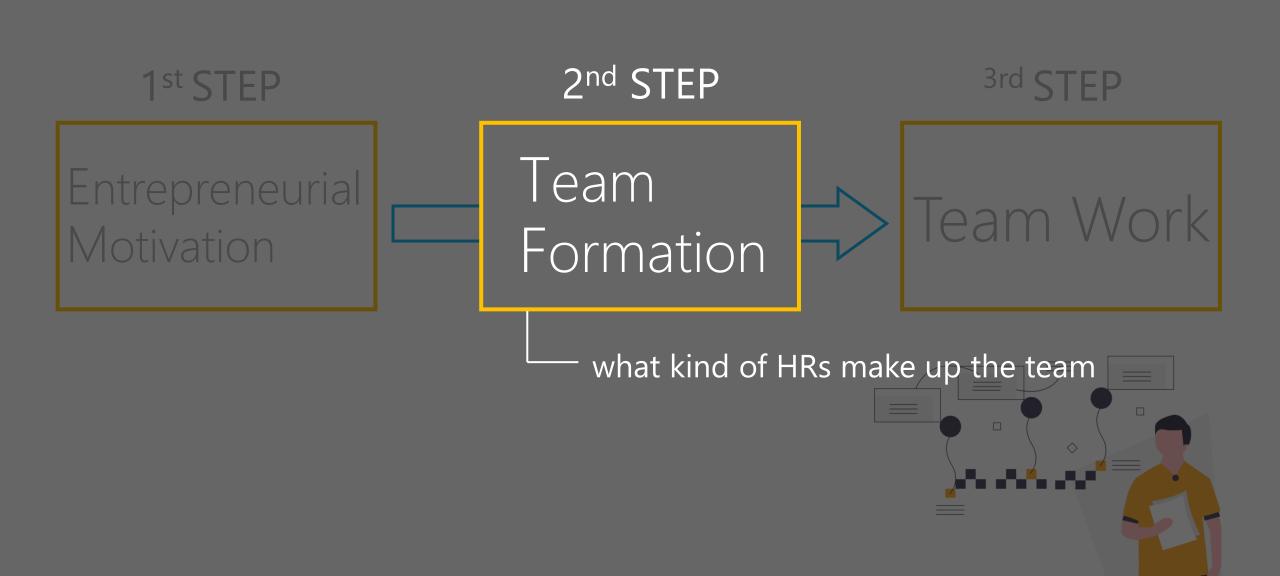


— the reason of establishing an ASO



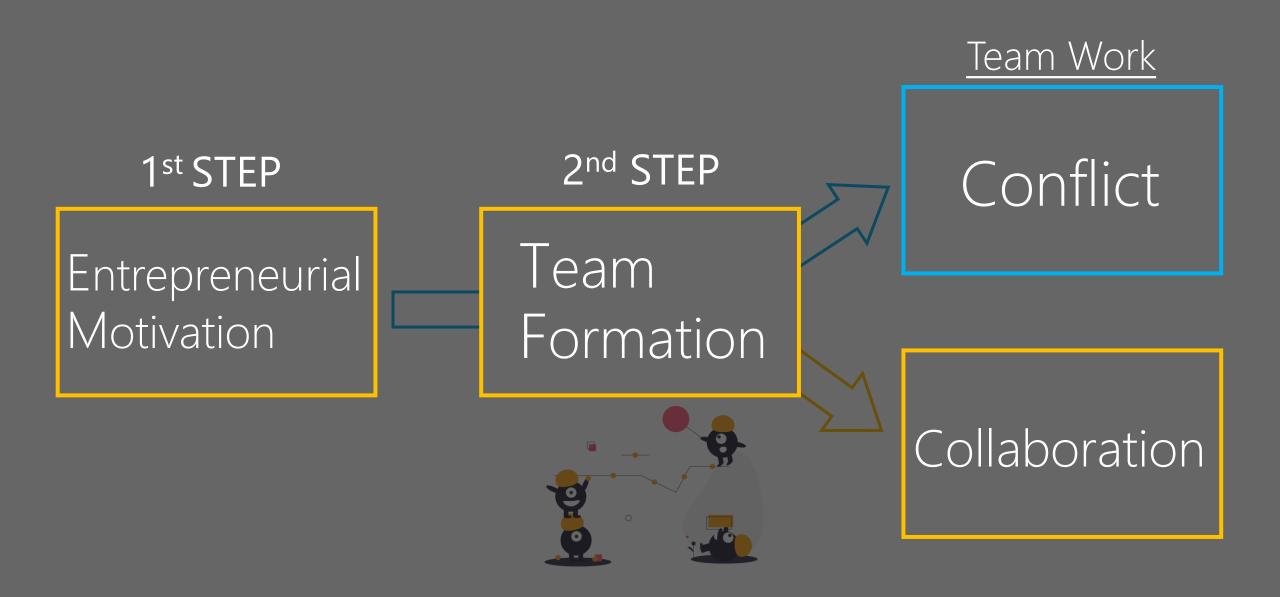


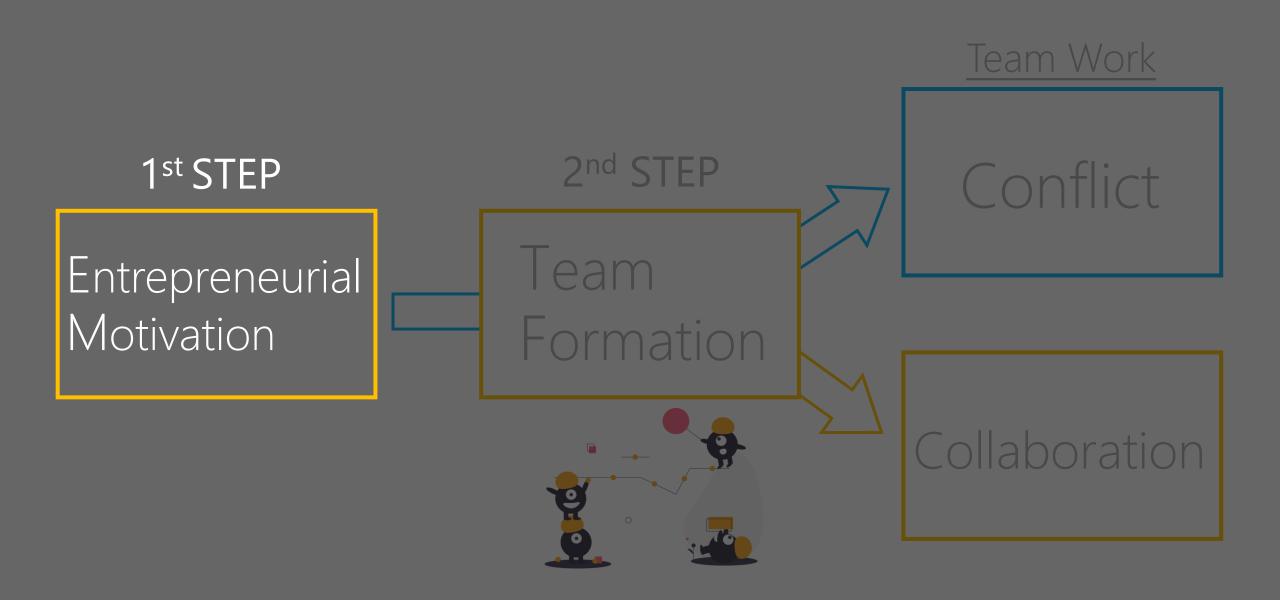


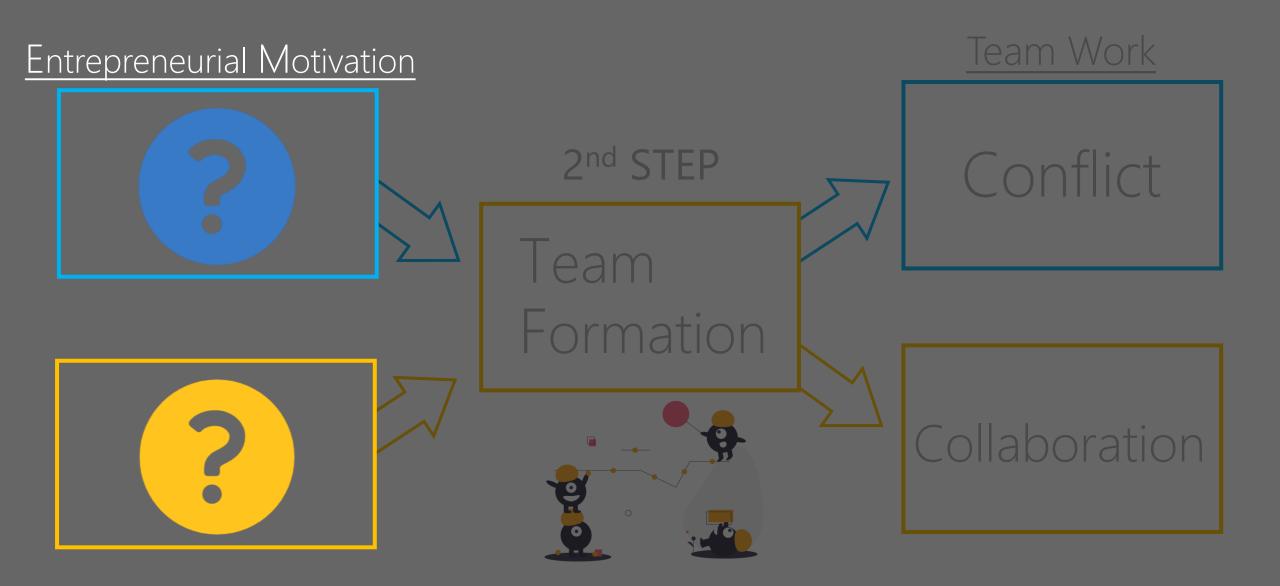


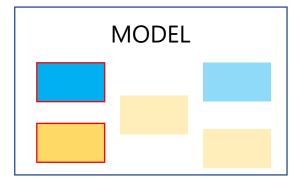












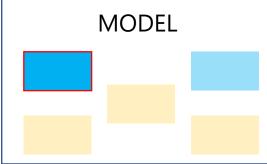
Two Types of Motivation

Aggressive motivation

Defensive motivation

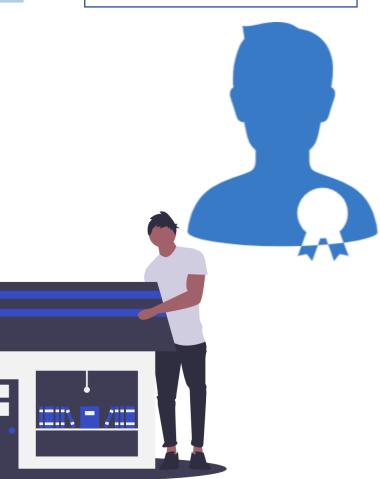


Aggressive motivation

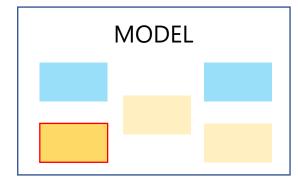


High-evaluated potential of the core tech

Proactively seeking business opportunity

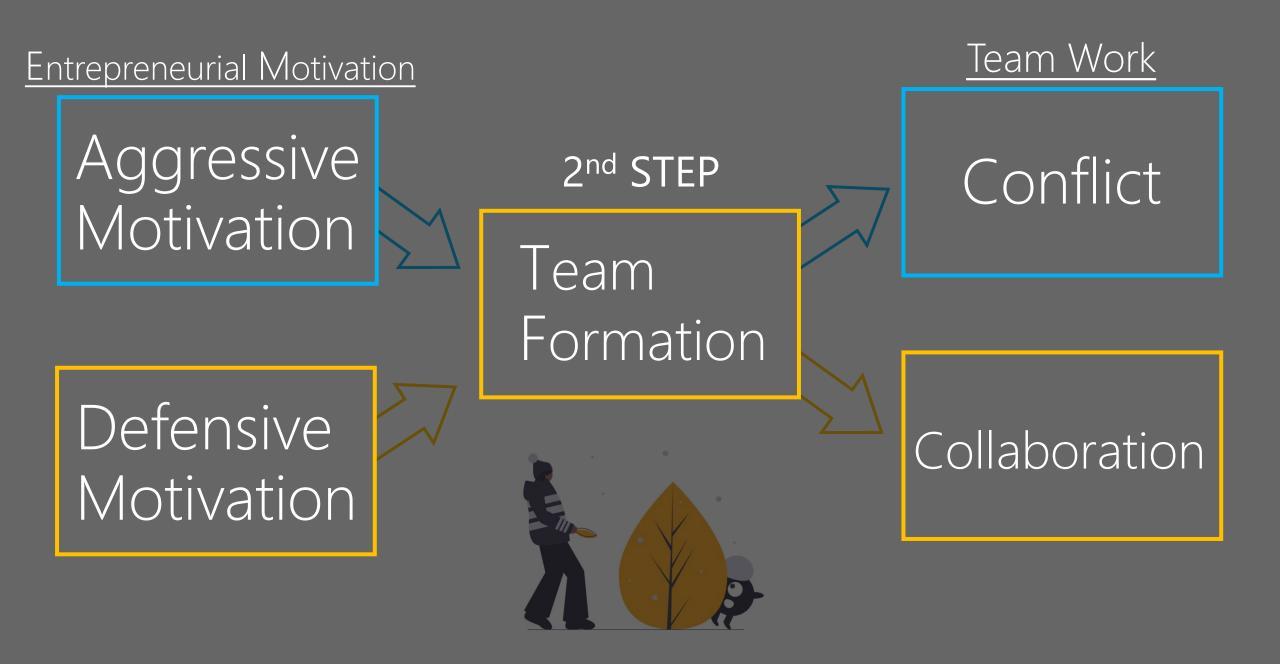


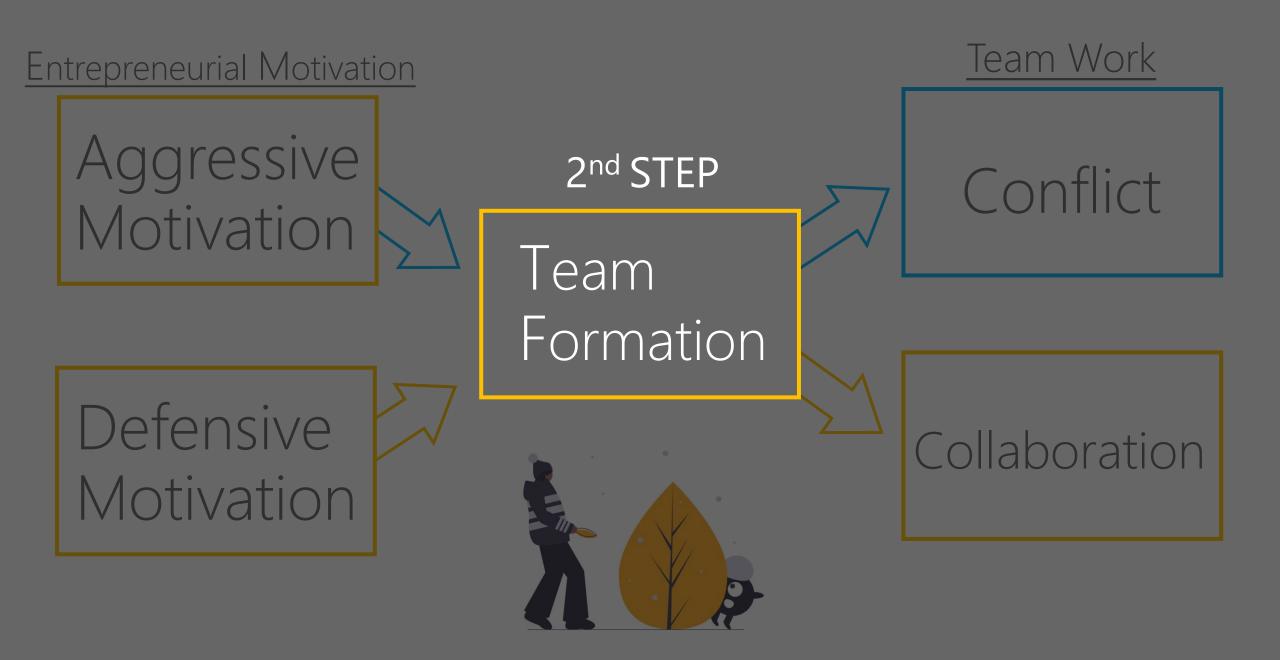
Defensive motivation



Low-evaluated potential of the core tech

In order to protect the canceled research projects

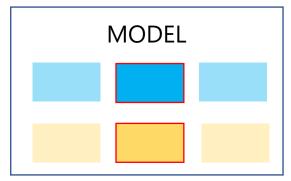








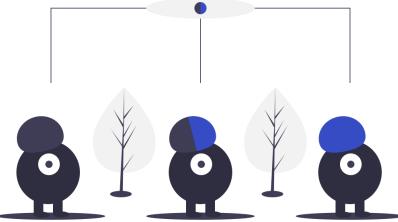




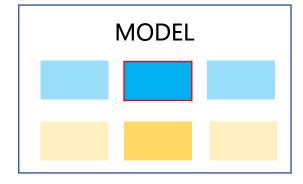
Two Types of Formation

Heterogeneous team





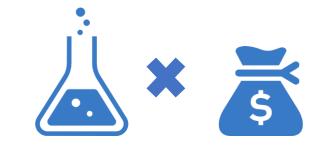
Heterogeneous team



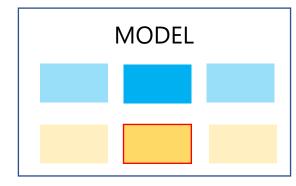
Composed of people both academia and industry:

Selected from people in various companies





Homogeneous team

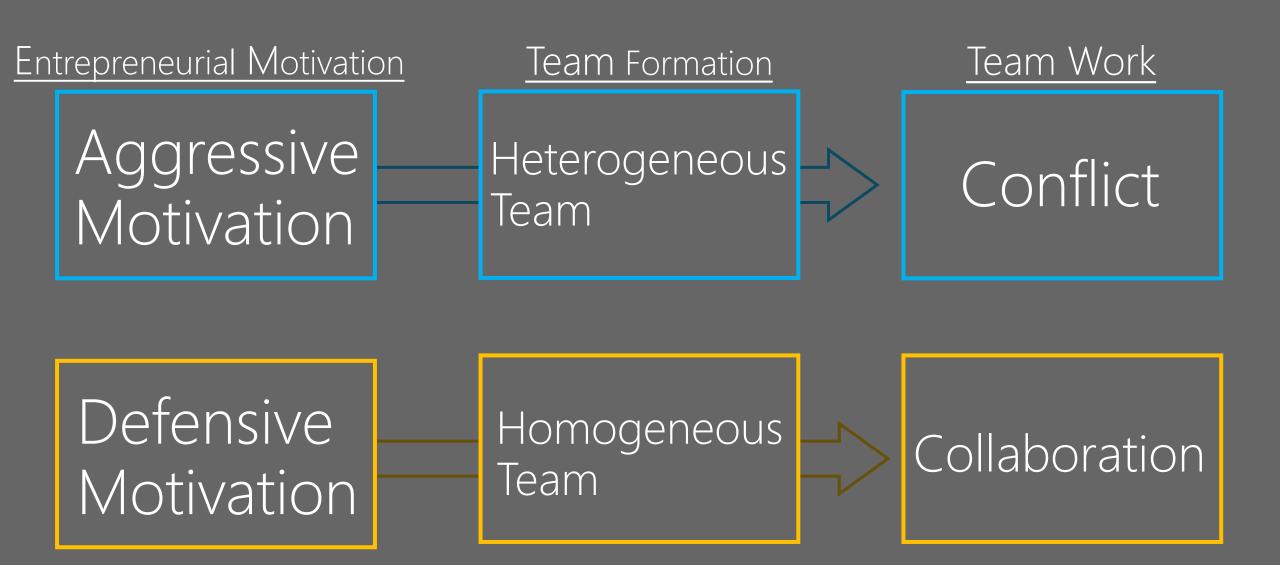


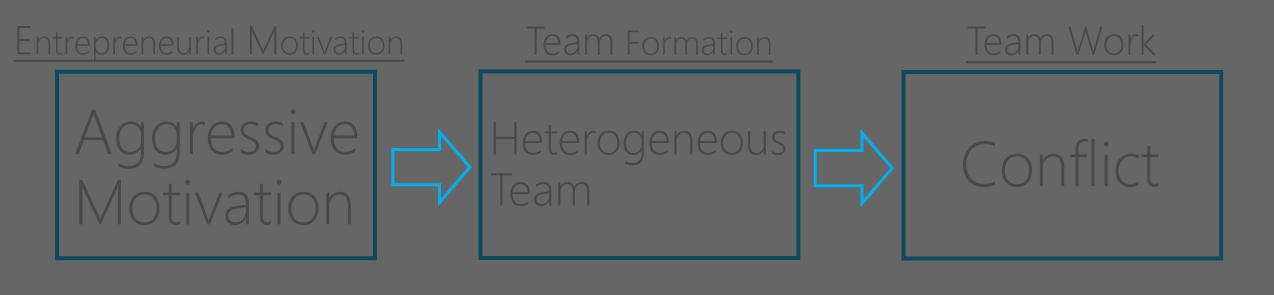
Composed of people sharing an academic background

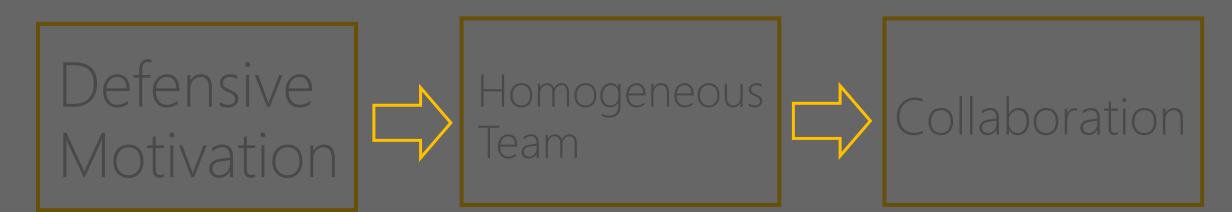
Selected from people who have previous relationship

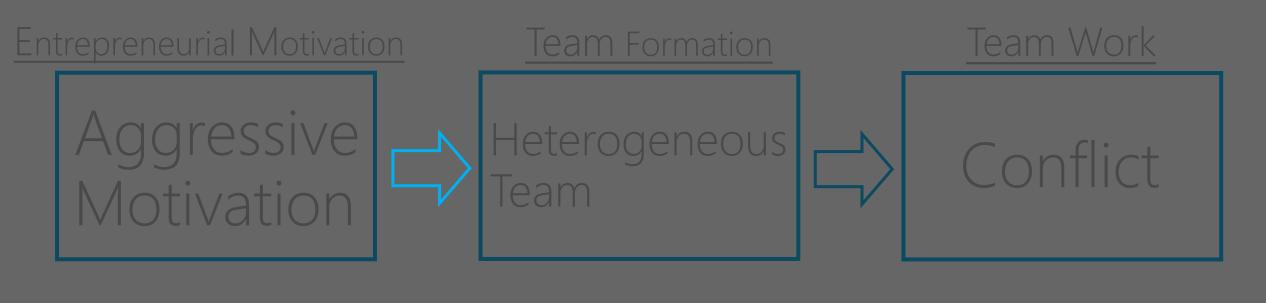


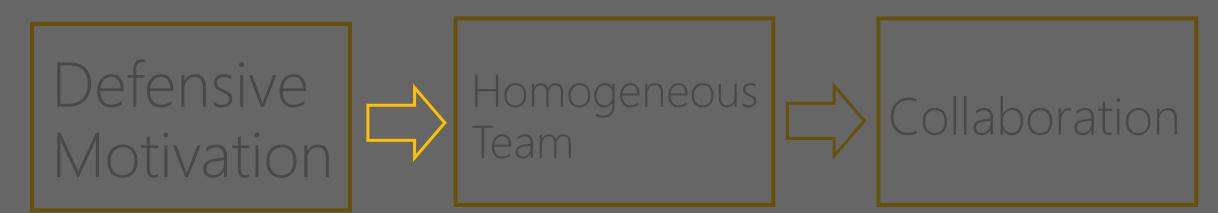










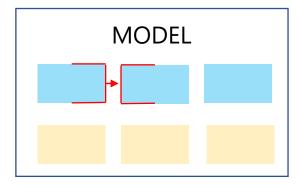


The motivation How to Selects the HRs The formation

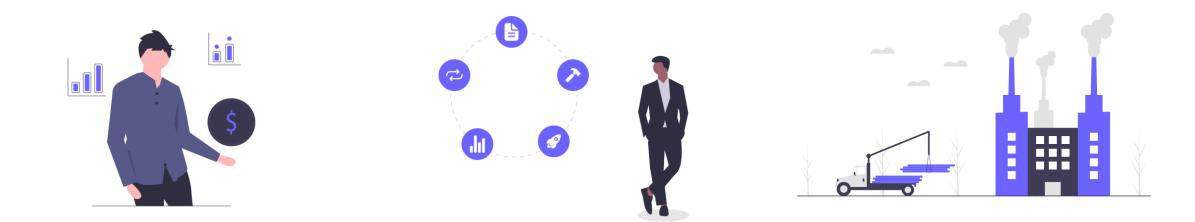


Based on aggressive motivation, how the HRs are selected?





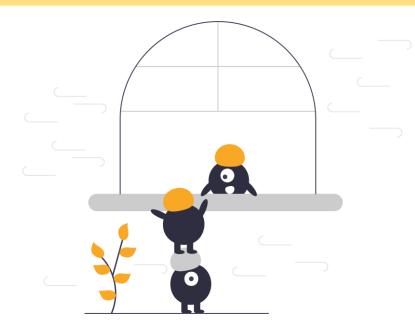
Various **business professionals** join the team from industry in order to **ensure the successful business**.

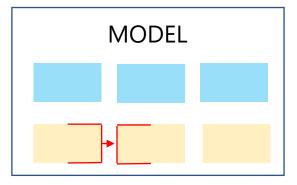


Entrepreneurial Motivation Team Formation Team Work Aggressive Motivation Heterogeneous Conflict Team

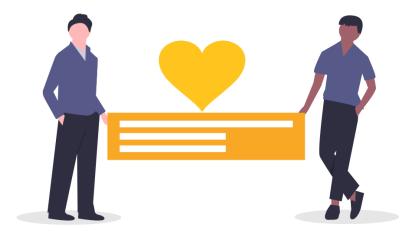


Based on defensive motivation, how the HRs are selected?

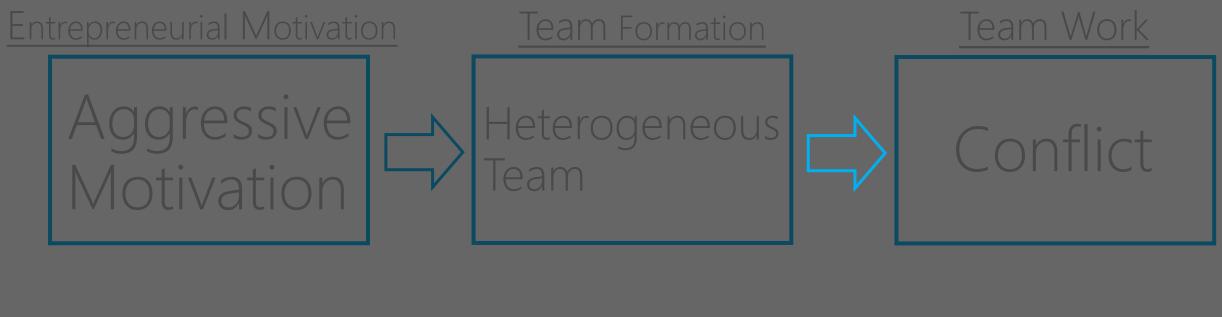


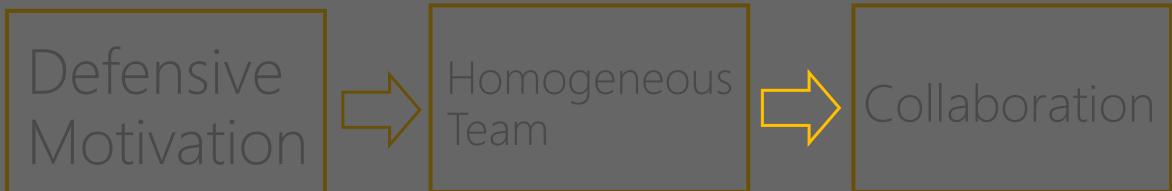


Originally involved people join the team from academic field in order to **protect the core tech** from abandoned.



Selection based on rational plan emotional commitment



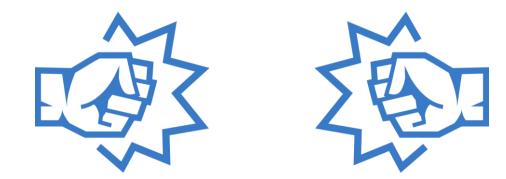


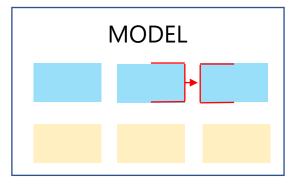
The formation

Cognitive Gap

The teamwork

How Heterogeneous Team ended up in Conflict?





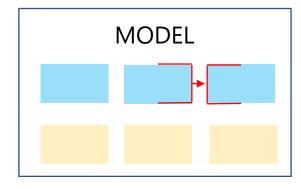
Wide Gap of **Priority** in business.

Minimizing risk & Maximizing profit

Achieving Scientific Goal

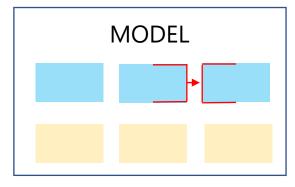






When other company have the producing know-how that they don't have,

outsourcing is ...?

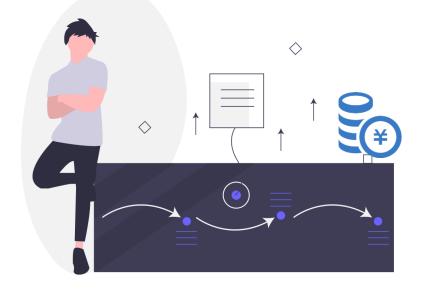


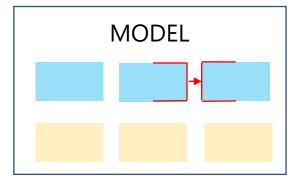
In terms of business

Great RISK of loosing the company's superiority, stability, and profits,

so we should develop by ourselves

even if it takes a lots of time and cost.



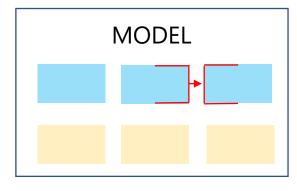


In terms of academic science

The Quickest way of making the findings into products, so we should ask others to produce

without the waste of resource.

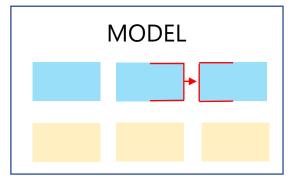




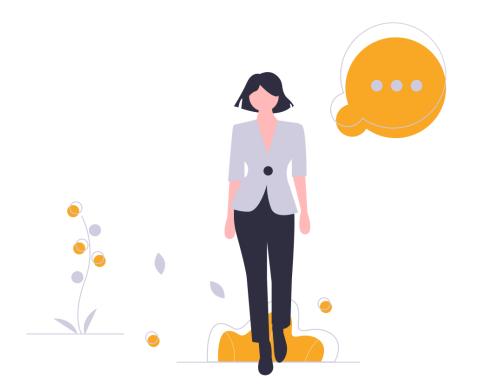


Such **cognitive gap** make the team less united, and make the researcher **feel discouraged**.





Finally, the researcher **quit** the further **help** for R&D that is essential for business.

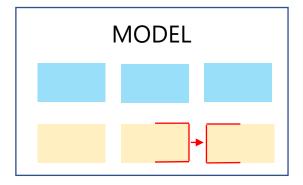


Entrepreneurial Motivation Team Formation Team Work Aggressive Heterogeneous Conflict Team Motivation Defensive Collaboration

Motivation

How Homogeneous Team achieve Collaboration?





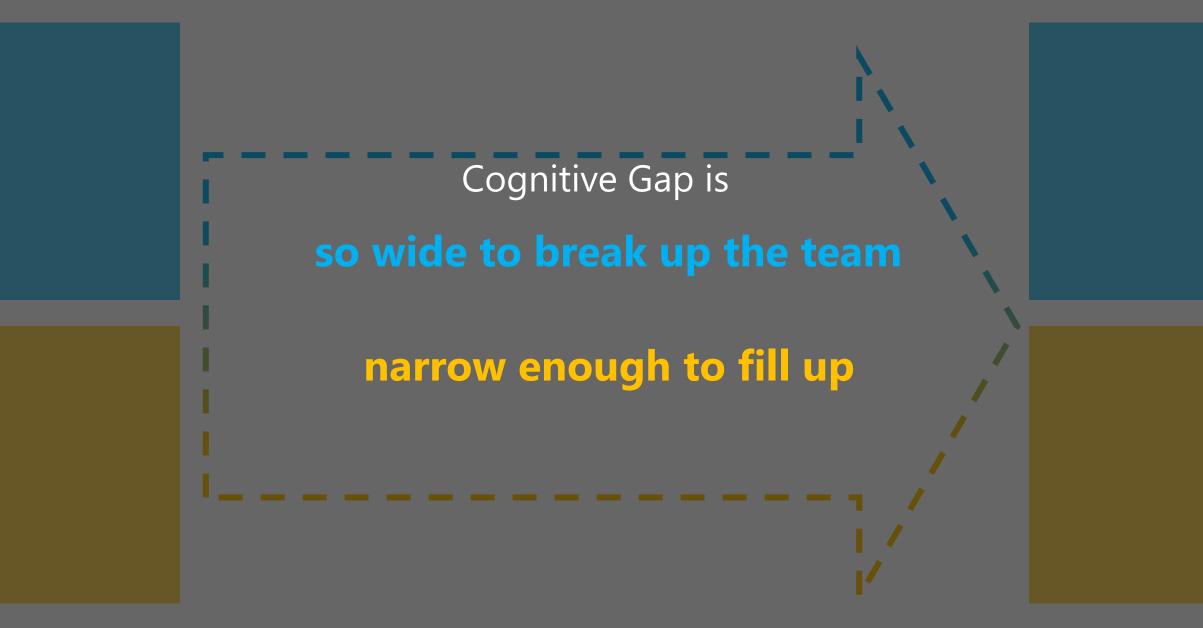
Common understanding to the core tech and previous **Relationships of mutual trust** make the cognitive gap **Small enough to solve** easily.

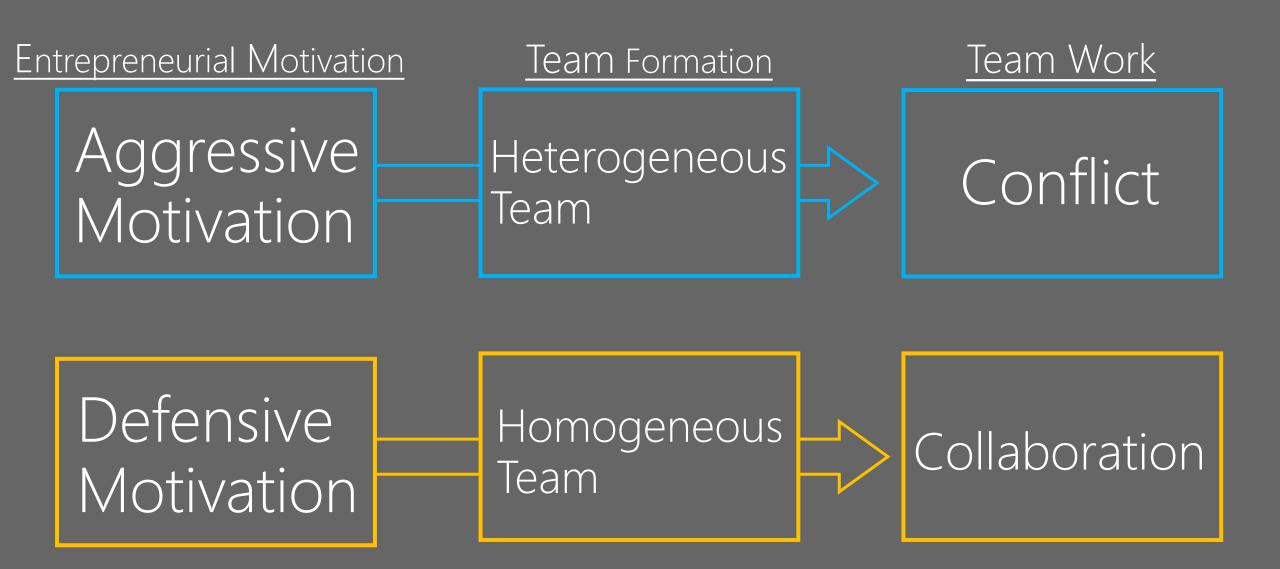




Emotional commitment to the core tech itself is the **strong driving force**

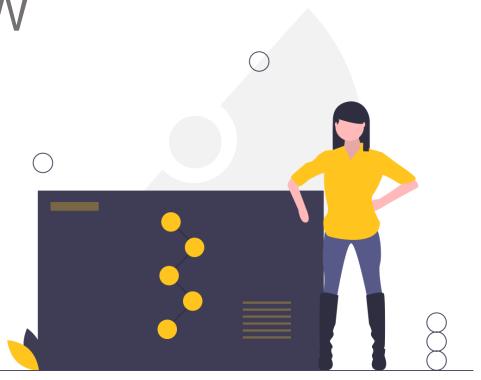
to overcome every challenge.





Outline

1. INTRODUCTION 2. LITERATURE REVIEW 3. METHODOLOGY 4. FINDING **5. CONCLUSSION**



Entrepreneurial Motivation Team Work Aggressive Heterogeneous Conflict Motivation Team We clarify the Internal Process in **team-building** of ASOs. Defensive ogeneous Collaboration Motivation

Importance of differential motivation that has not been recognized.

Defensive Motivation

Entrepreneurial Motivation

Homogeneous Team



Team Formation



Team Work Entrepreneurial Motivation Team Formation Aggressive Motivation Heterogeneous Conflict Team

Di: Teammates assembled for **efficient** business but ended up in **inefficient** teamwork. ation

Thank You!