



IMT Mines Albi-Carmaux
École Mines-Télécom



Pierre Fabre

TOWARDS HYPERCONNECTED SUPPLY CHAIN CAPABILITY PLANNING: CONCEPTUAL FRAMEWORK PROPOSAL

Raphaël OGER, Benoit MONTREUIL,
Matthieu LAURAS, Frédérick BÉNABEN

With the support of the industrial research chair



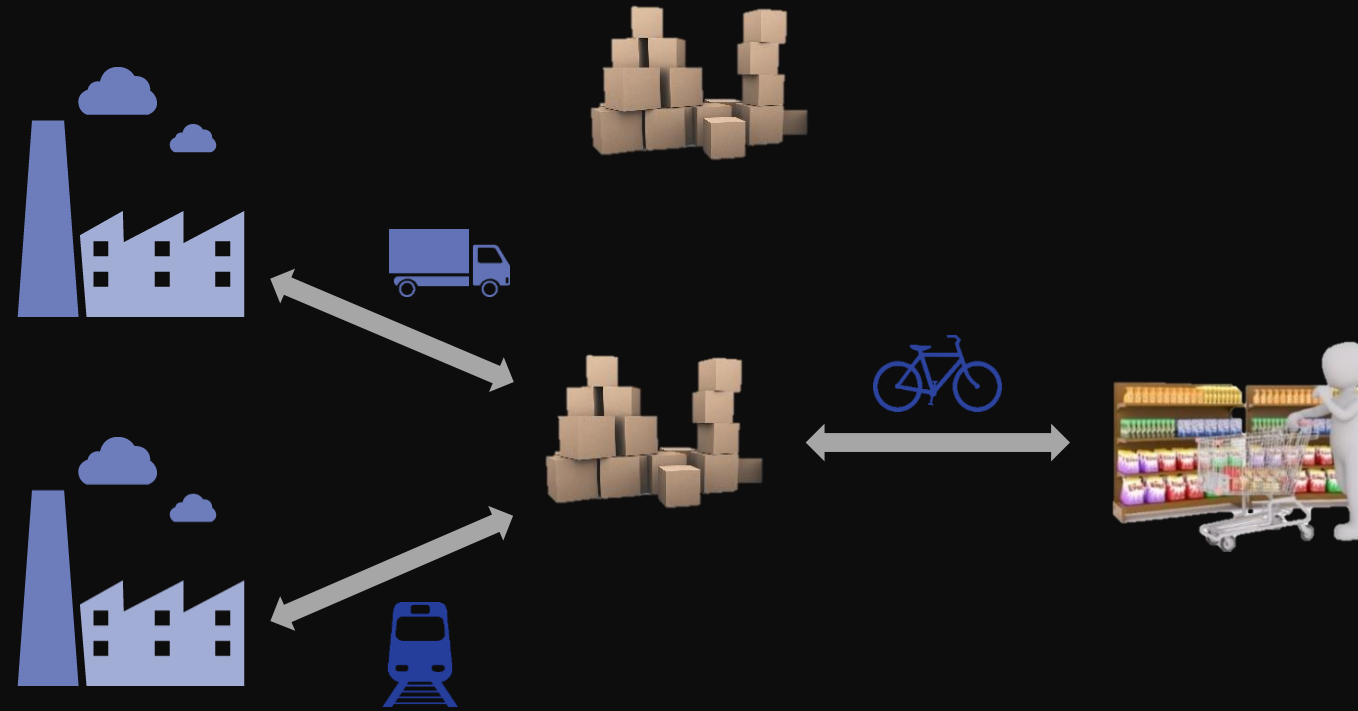
5th IPIC conference
June 20th 2018
Groningen, The Netherlands

Agenda



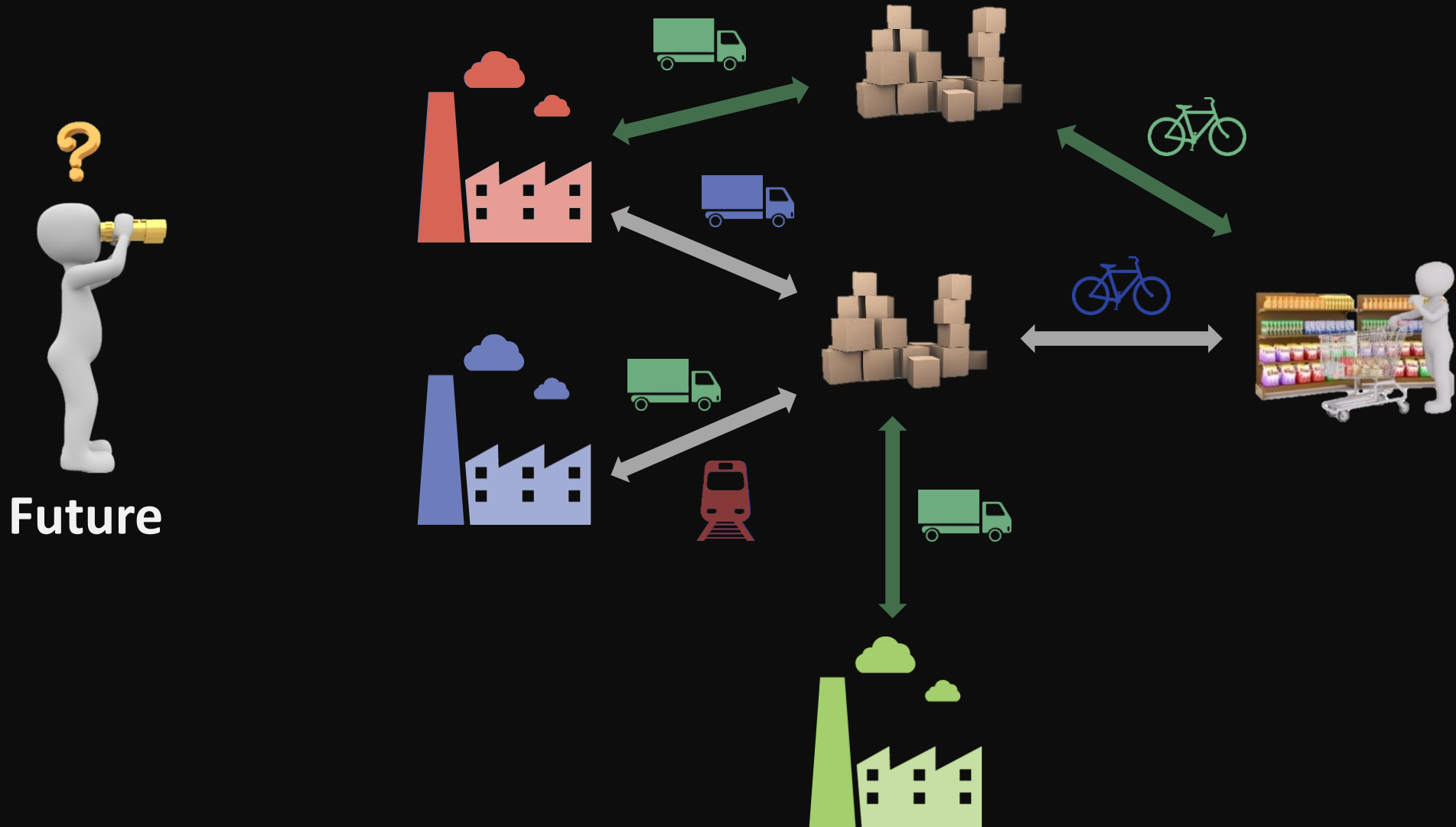
Logistics network & Supply Chain

Stakeholders & Relations

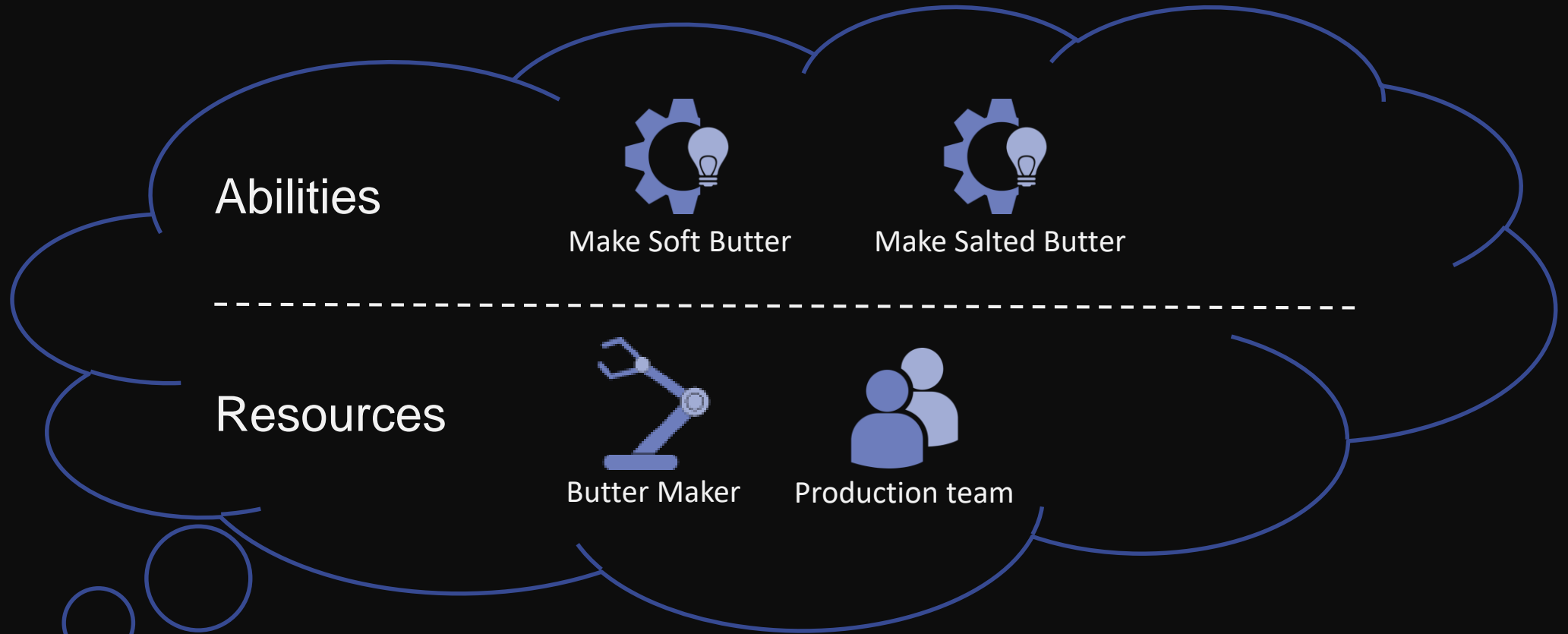


Logistics network & Supply Chain

Risks & Opportunities

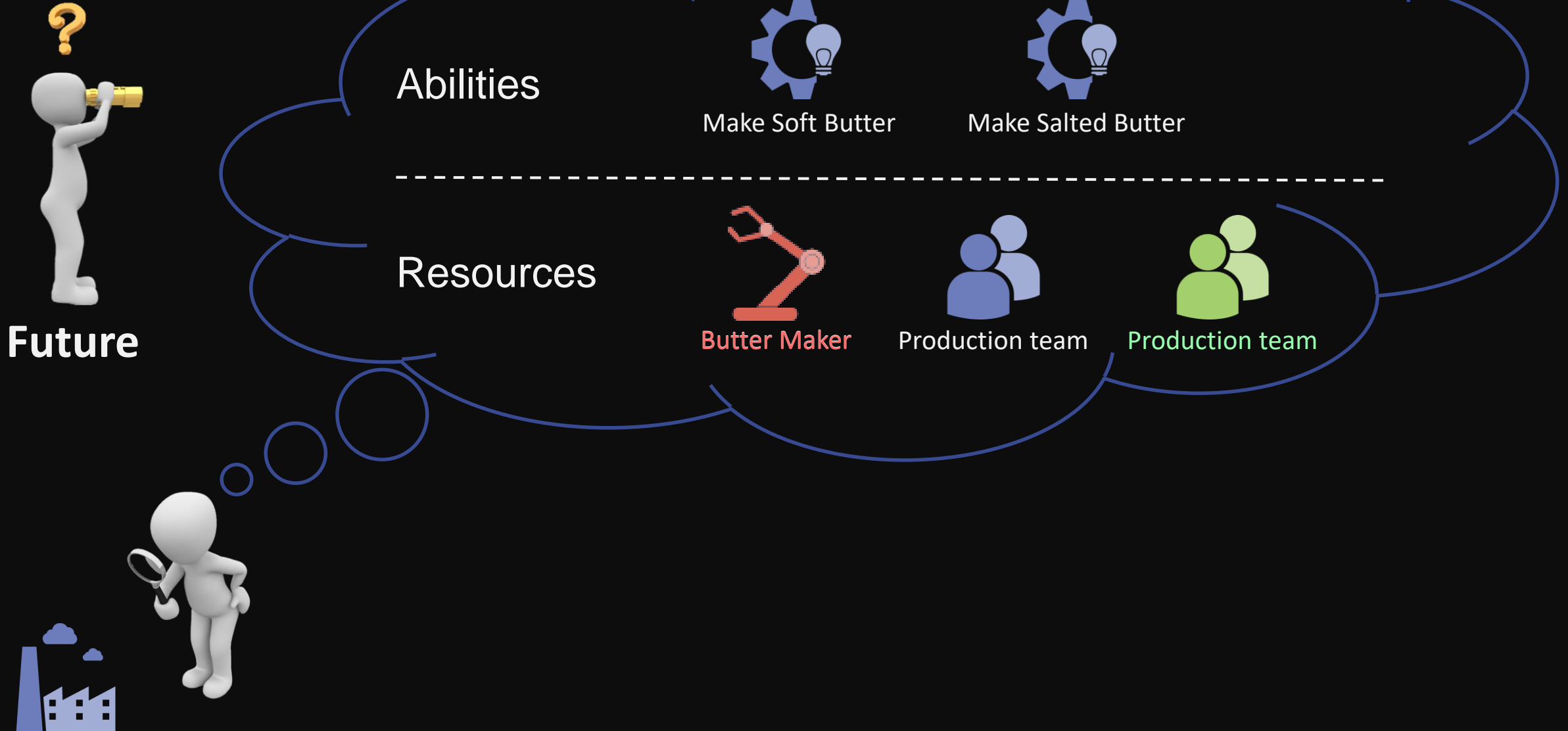


Zoom in on a stakeholder



Zoom in on a stakeholder

Risks & Opportunities

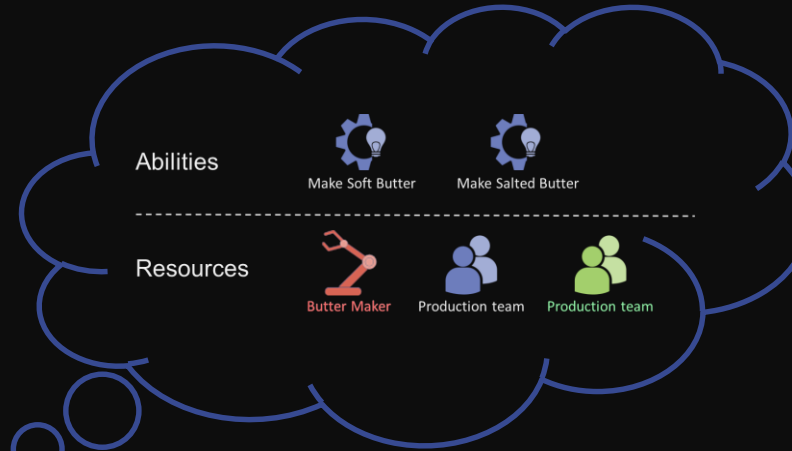


What decisions to make for the future?

Partnerships



Internal investments



New supplier

New production team

No change

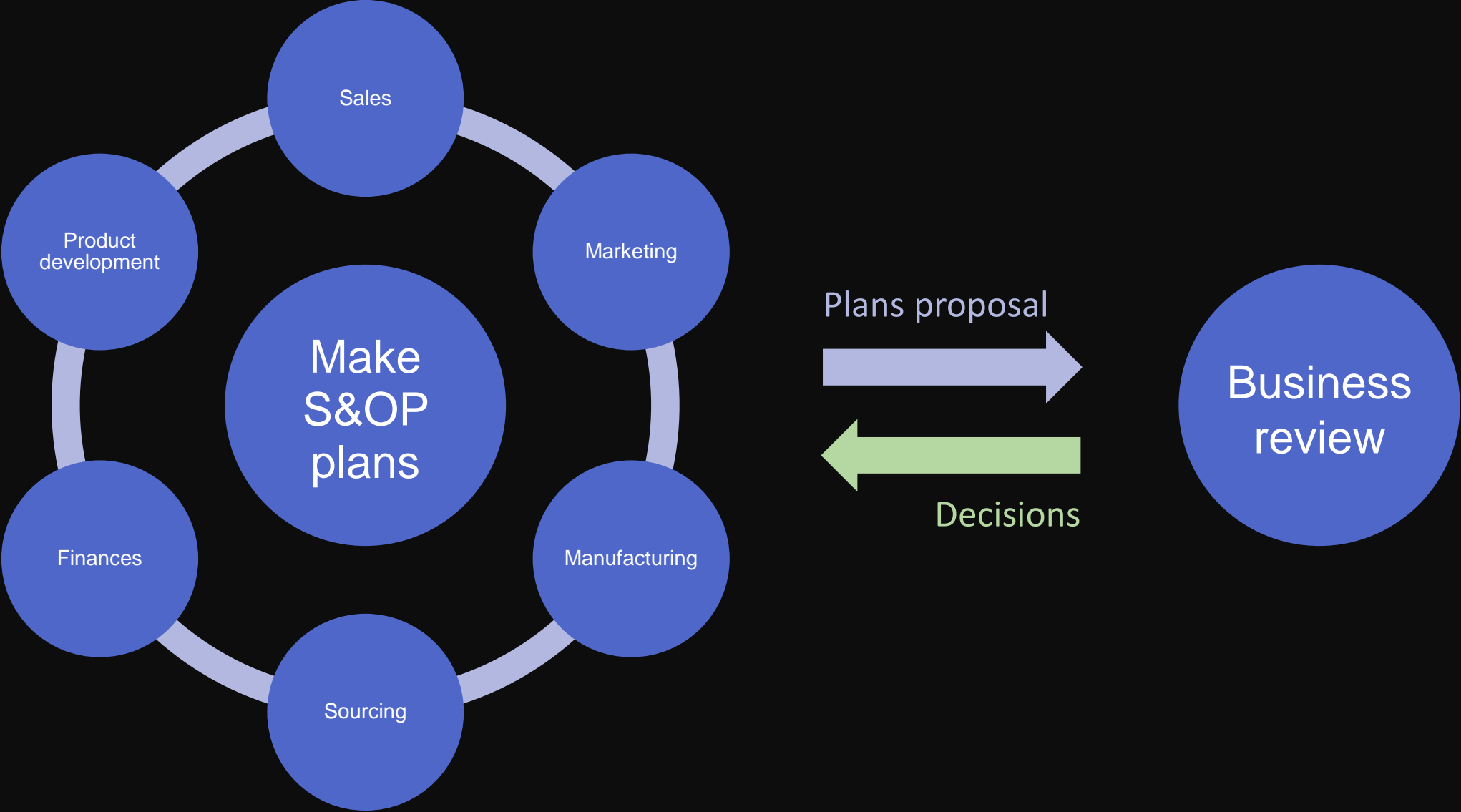
How to make those decisions?

Sales and Operations Planning (S&OP) methodology

Sales and Operations Planning (S&OP) methodology

A process that helps companies to manage
medium- and long-term
business planning decisions

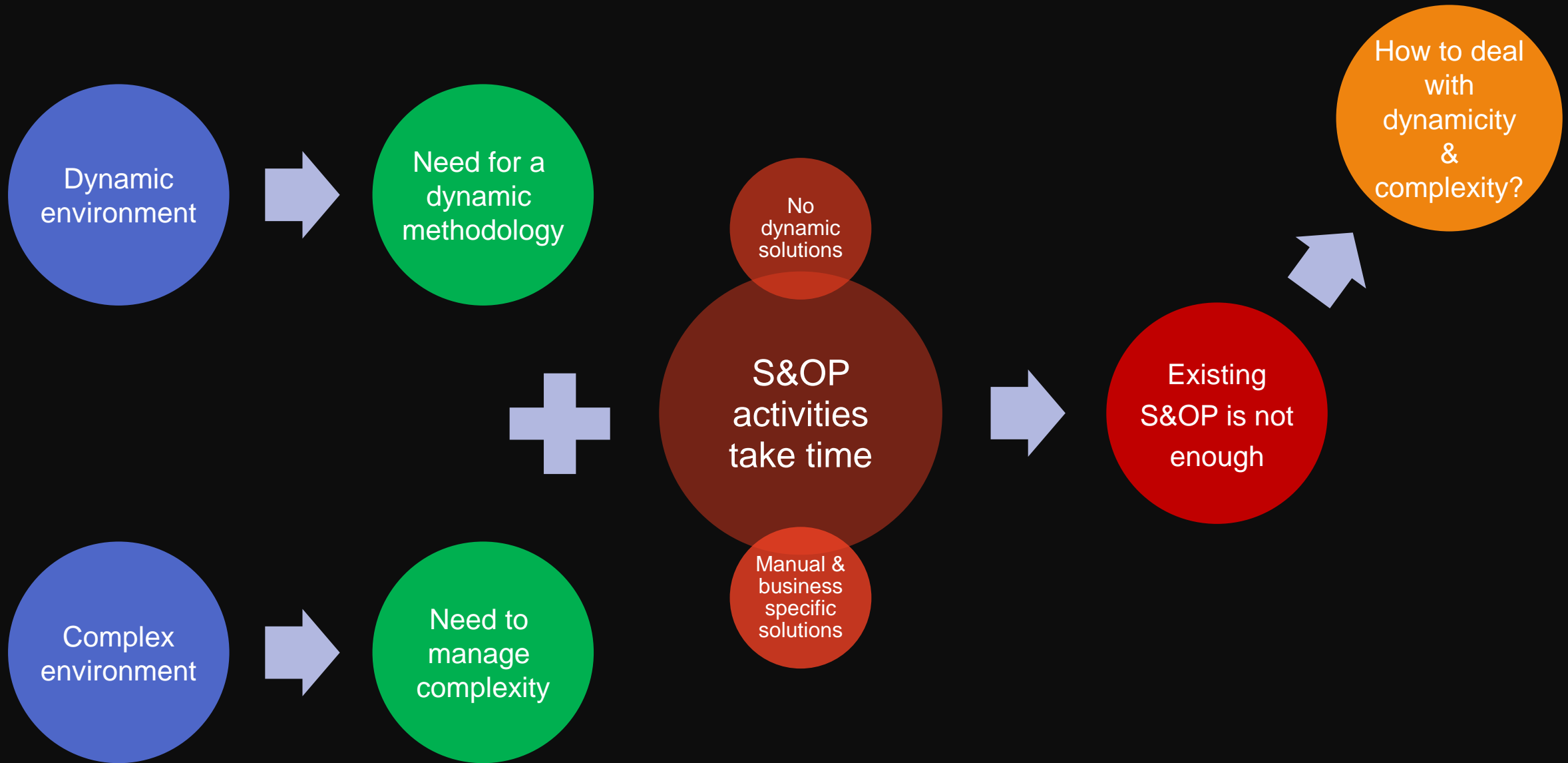
Sales and Operations Planning (S&OP) methodology



But...

Can S&OP perform effectively in a dynamic and complex environment?

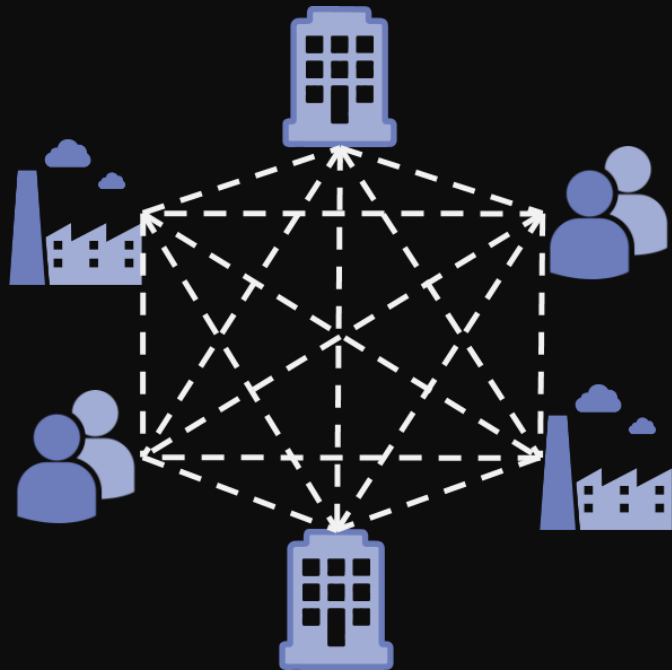
Sales and Operations Planning (S&OP) limitations & Research statement



How to deal with dynamicity & complexity?

Hyperconnectivity

Availability of the information shared
anywhere and anytime



Automation

Decision Support System automation



Proposal

-

Hyperconnected Supply Chain Capability Planning
(HSCCP)

Focus on Capabilities



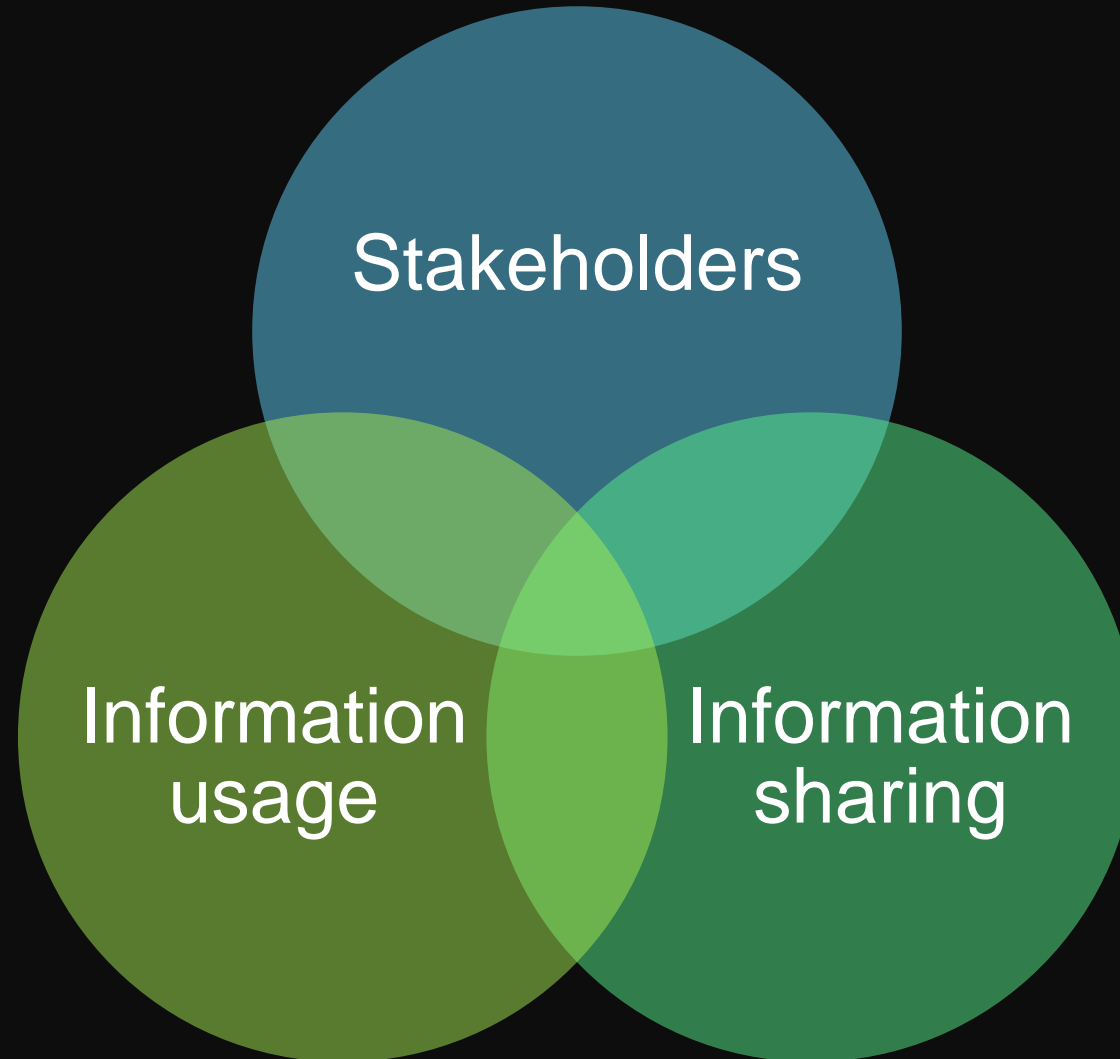
Objective of this paper

-

Conceptual framework proposal

Hyperconnected Supply Chain Capability Planning (HSCCP)

Main structural concepts



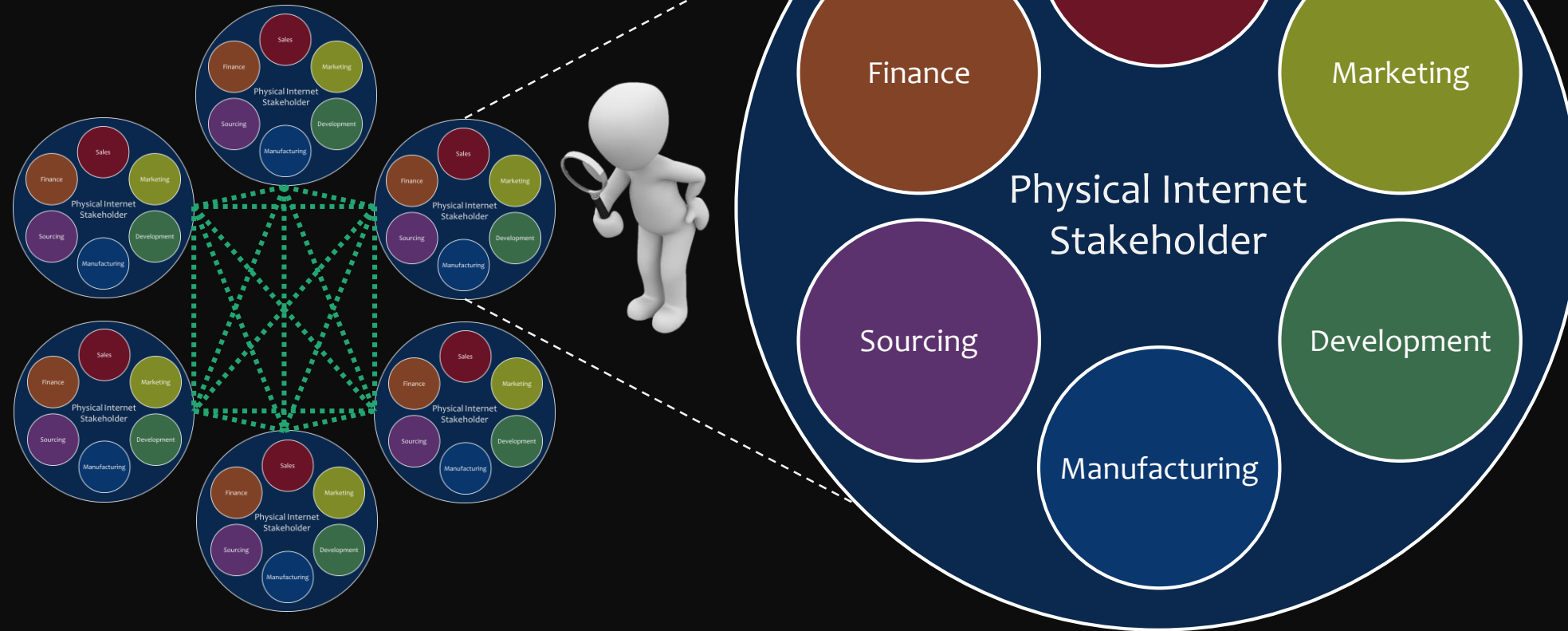
Hyperconnected Supply Chain Capability Planning (HSCCP)

Main structural concepts



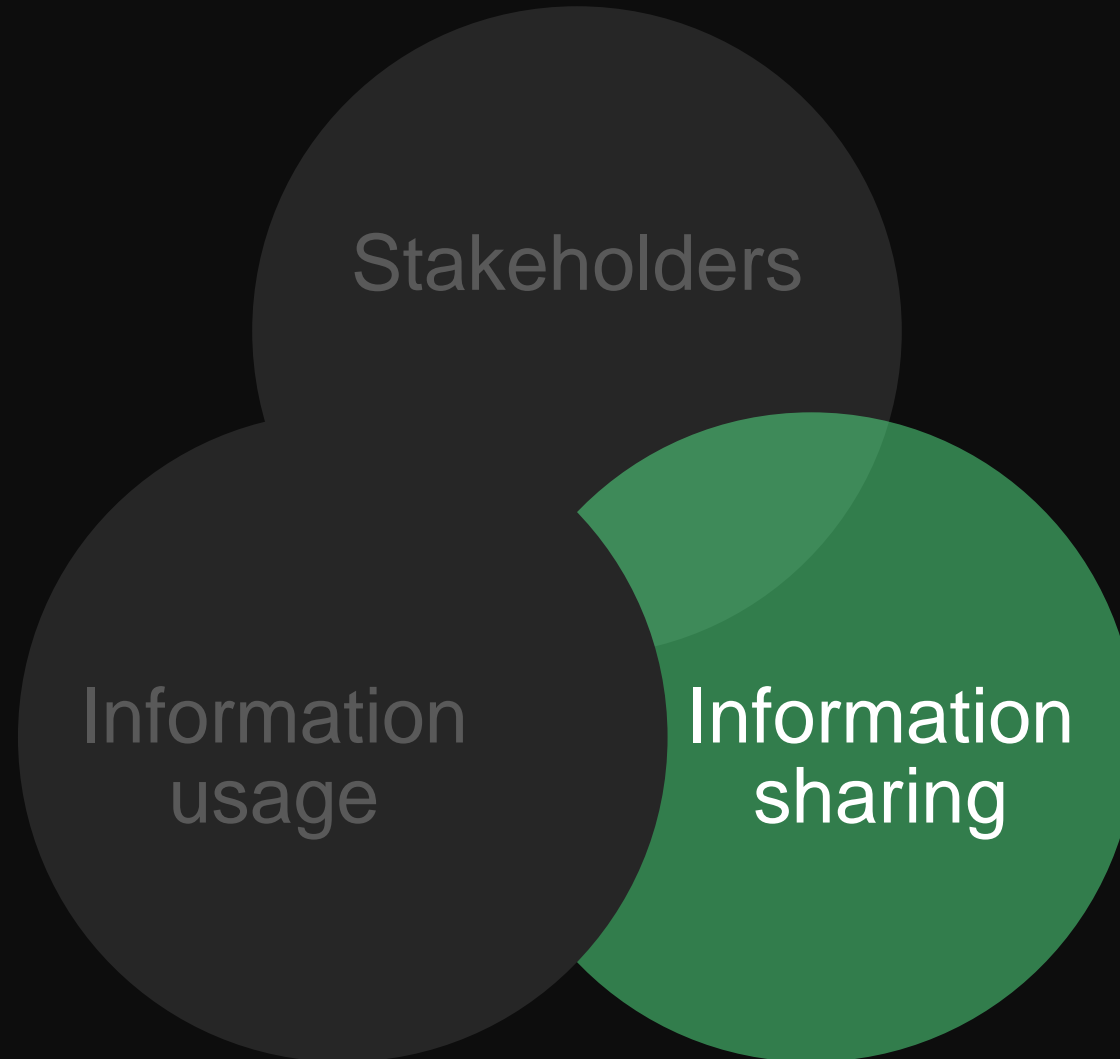
Hyperconnected Supply Chain Capability Planning (HSCCP)

PI stakeholders & Internal stakeholders



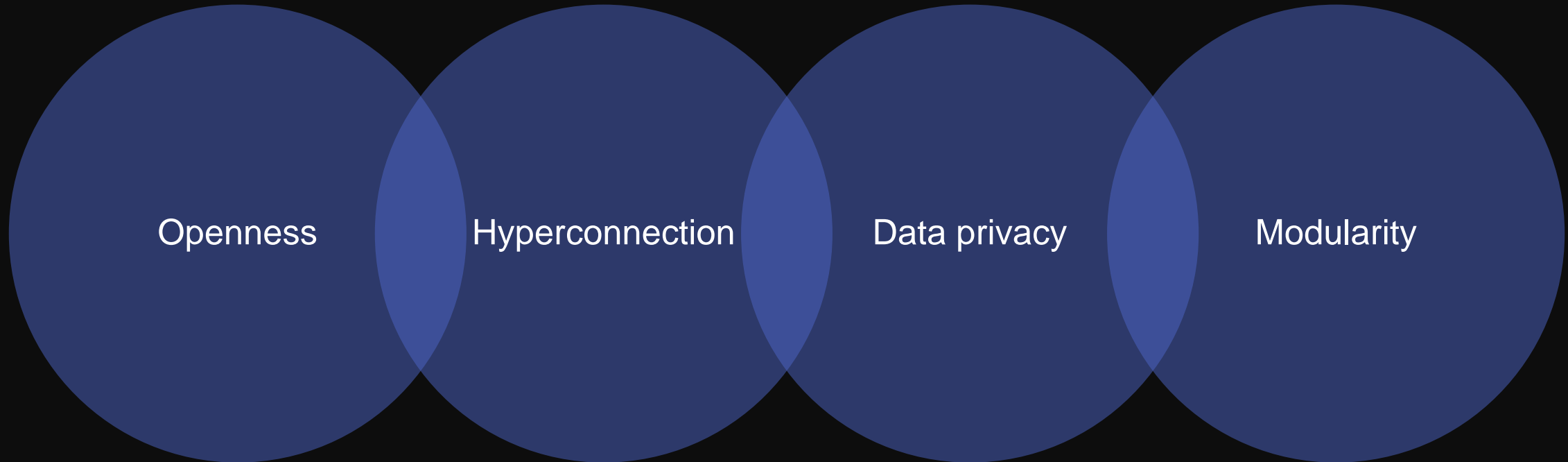
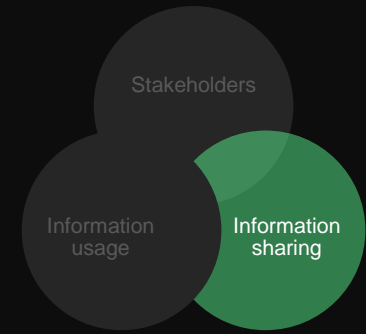
Hyperconnected Supply Chain Capability Planning (HSCCP)

Main structural concepts



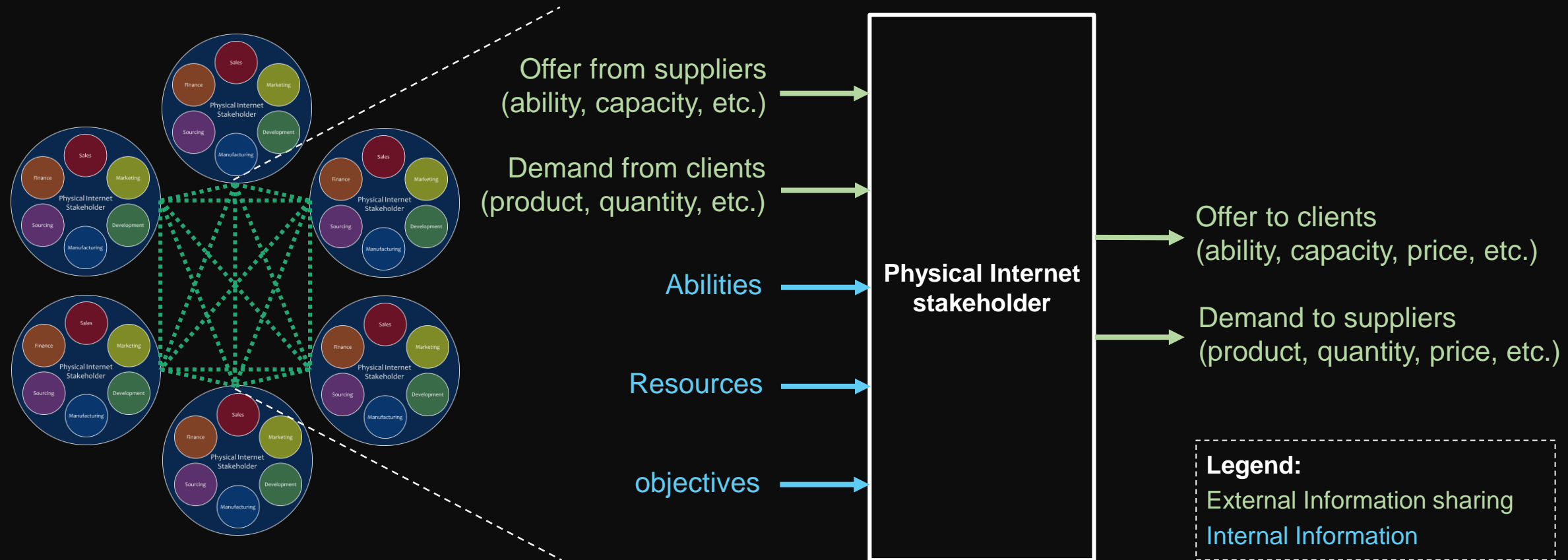
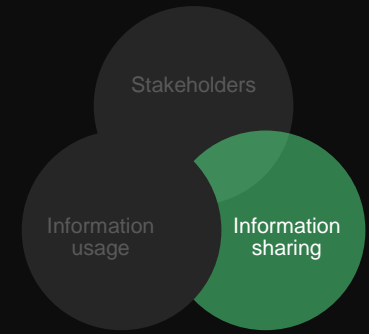
Hyperconnected Supply Chain Capability Planning (HSCCP)

Communication principles



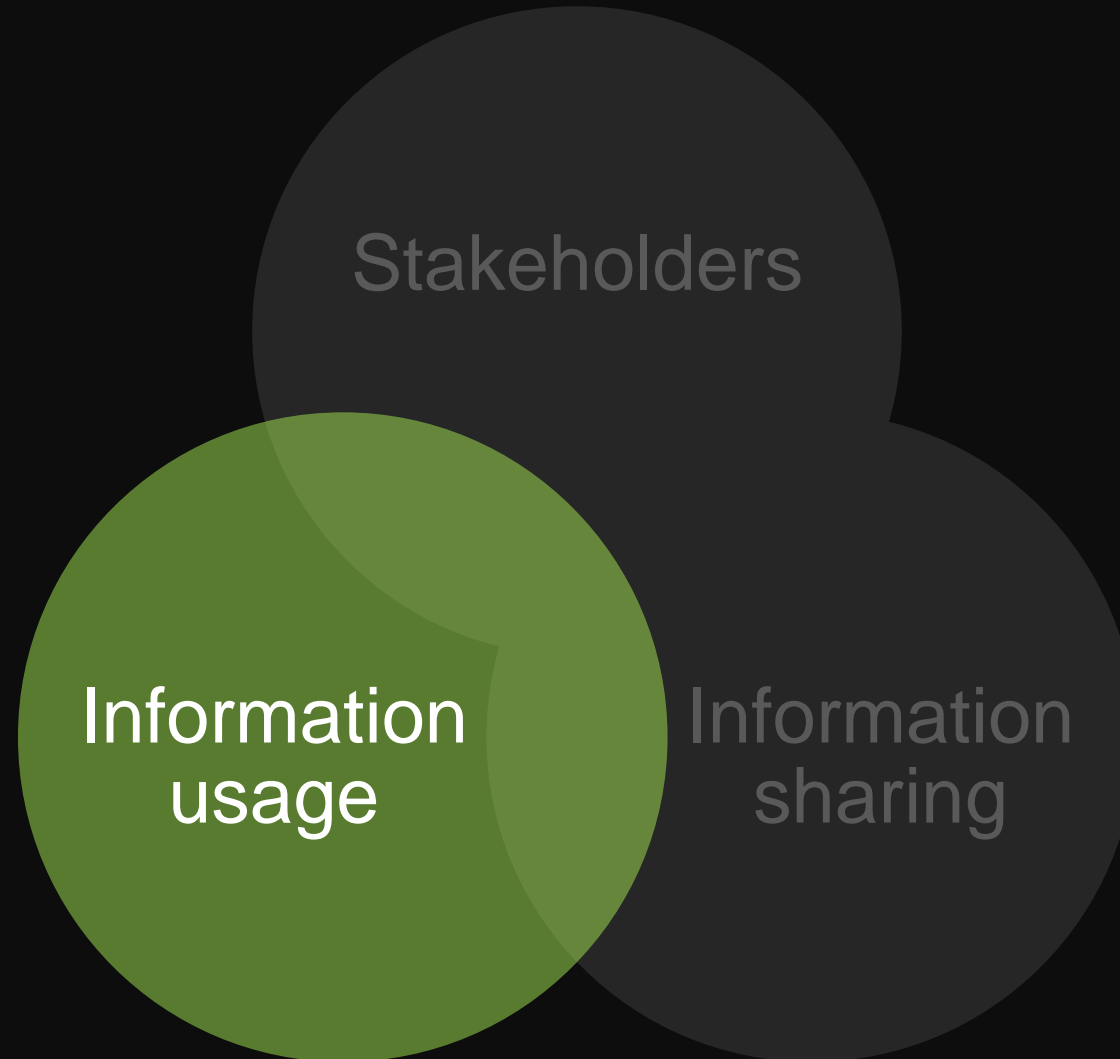
Hyperconnected Supply Chain Capability Planning (HSCCP)

Information flows



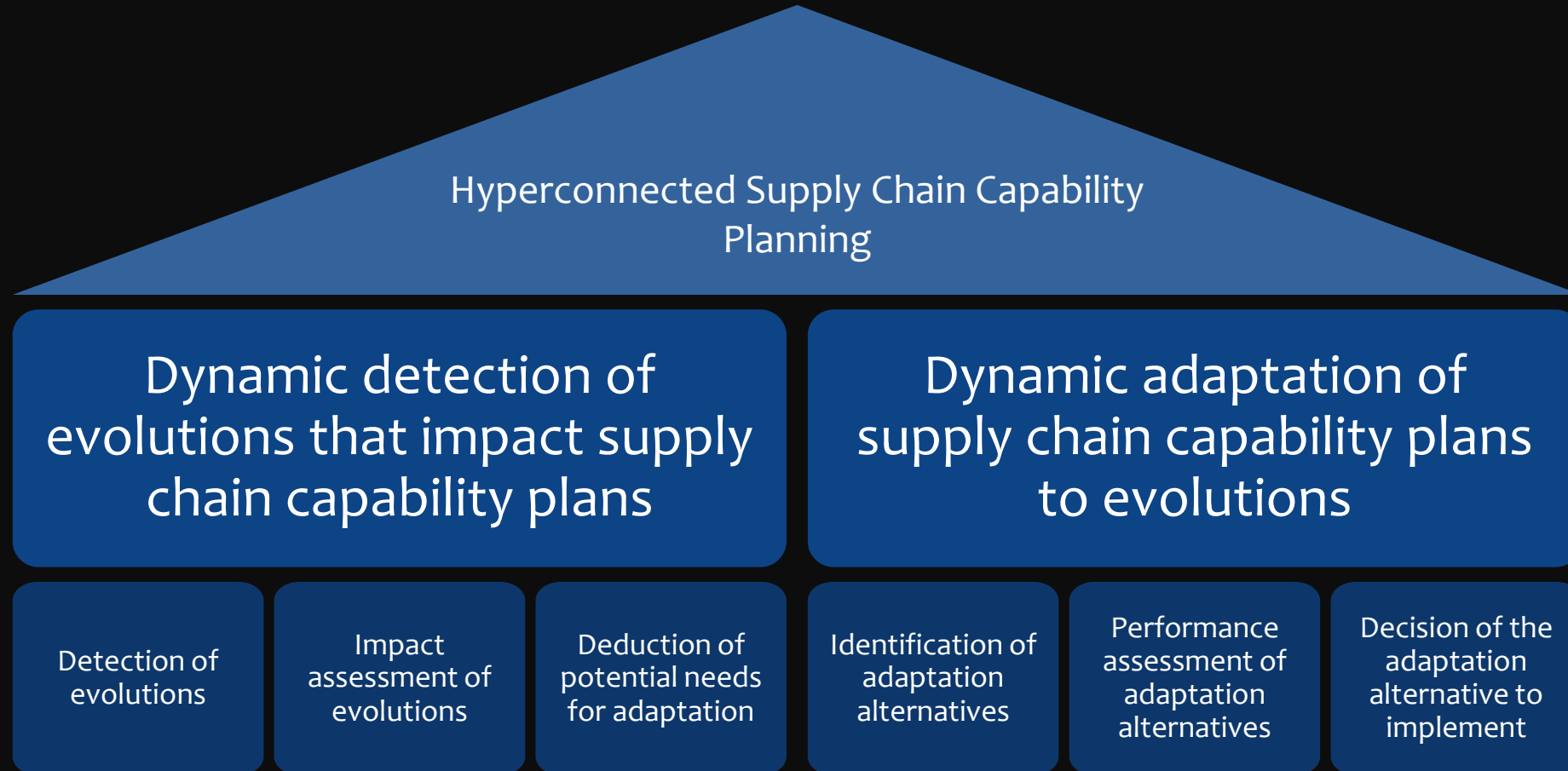
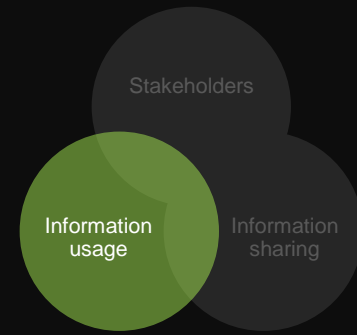
Hyperconnected Supply Chain Capability Planning (HSCCP)

Main structural concepts

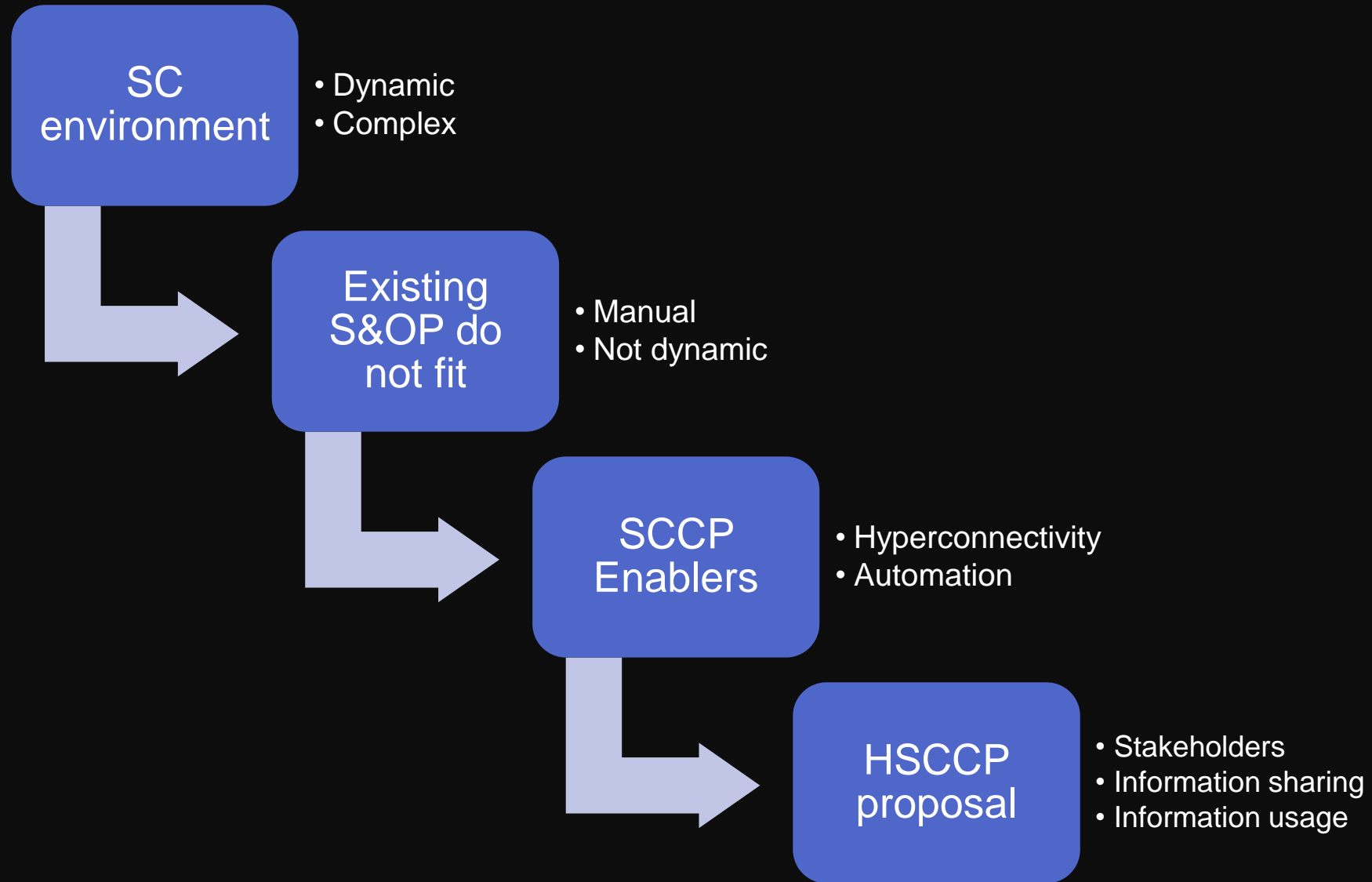


Hyperconnected Supply Chain Capability Planning (HSCCP)

Dynamic detection & Dynamic Adaptation

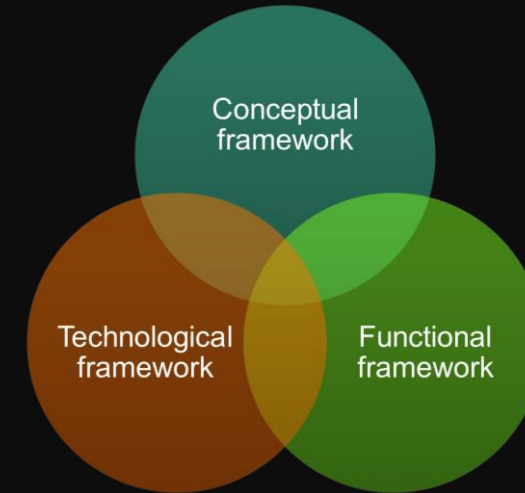


Conclusion



Avenues for future research

To design functional and technological solutions



To challenge the CPFR methodology

To consolidate the conceptual framework



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Pierre Fabre



спасибо 谢谢
GRACIAS 谢谢
THANK YOU
ありがとうございました **MERCI**
DANKE धन्यवाद
شُكراً **OBRIGADO**



With the support of the industrial research chair



raphael.oger@mines-albi.fr

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