# Summary

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| Paper Title | Innovationen den Weg ebnen |
| Paper Author | IW Consult GmbH |
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| Summary Conductor | Ann-Kathrin Wacker |

# Key Takeaways

1. Many drivers hinder especially big companies in the chemistry sector to innovate
2. Companies’ management levels have to create a culture driven by openness towards innovation and cross-industrial communication and lower hierarchies
3. Cooperations in research and development between the industry and universities/startups hold a huge potential that is not sufficiently exploited yet
4. Higher participation of companies into startups that cooperate with universities
5. Complexity for such cooperations has to be reduced especially concerning the EU framework for state aid

# Paper Overview

* Detailed research study about the barriers for innovations in the chemistry industry sector in Germany. Innovations are necessary for Germany and German companies to stay competitive with the world, especially with China and the US.
* Identification of internal and external barriers that hinder organizations to be more innovative. Study is giving advise on how to overcome those problems.
* Internal barriers: missing innovation culture especially in big companies (risk aversion, missing openness to new approaches, missing communication with other companies or universities), no disruptive innovations, the innovation process is not fast and efficient enough
* External barriers: regulations and bureaucracy, missing acceptance by the society concerning innovations in the chemistry sector, not enough financial help by the government
* Open Innovation approaches are getting more and more important but successful Open Innovation requires the management to enhance communication beyond the company’s borders and lower hierarchies inside the organization.
* Create a culture between companies that is built on trust joint with a respective contractual protection
* Cooperations with universities and other companies like startups have a huge potential that is not yet exploited. Although, cooperation models are not efficient the way they exist currently due to high costs and bureaucratic processes.
* Big companies should participate in interesting startups and create their own startups inside universities to be closer to disruptive innovation topics
* Creation of promoting platforms that are used from the industry and universities/research institutes to support stronger cooperation between industry and universities
* EU and BMWi offers model contracts that should be used
* Community framework for state aid for R&D is too complex and not transparent → EU has to change and clarify that framework