

# AccessFabrik Project

Presented By:

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# AccessFabrik

What is the project?

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Joint research endeavour between:

Ryerson University (Rogers Communications  
Centre)

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Ryerson University (Rogers

Communications Centre)

Fraunhofer Institute (IAO)

# AccessFabrik

Rogers Communications Centre

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Rogers Communications Centre

3 AccessGrid Nodes

2 AccessGrid Research Labs

# AccessFabrik

## Rogers Communications Centre

Premier facility in Canada for studies in converging communications and interactive media.

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Premier facility in Canada for studies in converging communications and interactive media.

Radio and Television Arts, Image Arts, Journalism and Computer Science

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Rogers Communications Centre

International reputation for strength in advanced research and innovation.

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## Rogers Communications Centre

International reputation for strength in advanced research and innovation.

Partnered research with organizations from Germany, France, United Kingdom, Brazil

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Rogers Communications Centre

Strong links with Industrial partners

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AccessFabrik Partners:

Alias Software

Intier (a division of Magna Corporation)

# AccessFabrik

Rogers Communications Centre

[www.ryerson.ca](http://www.ryerson.ca)

[www.rcc.ryerson.ca](http://www.rcc.ryerson.ca)

# AccessFabrik

Fraunhofer Institute for Industrial Engineering

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Leading organization of Applied Research in  
Germany (56 research institutes)

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Leading organization of Applied Research in  
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11,000 employees 50% of which are scientists  
and engineers

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Fraunhofer Institute for Industrial Engineering

Total expenditure of 900 million Euro per year  
2/3 earned through contracts with industry and  
the public sector

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Fraunhofer Institute for Industrial Engineering

Major Industrial Partner:

Daimler Chrysler

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Fraunhofer Institute for Industrial Engineering

[www.fraunhofer.de](http://www.fraunhofer.de)

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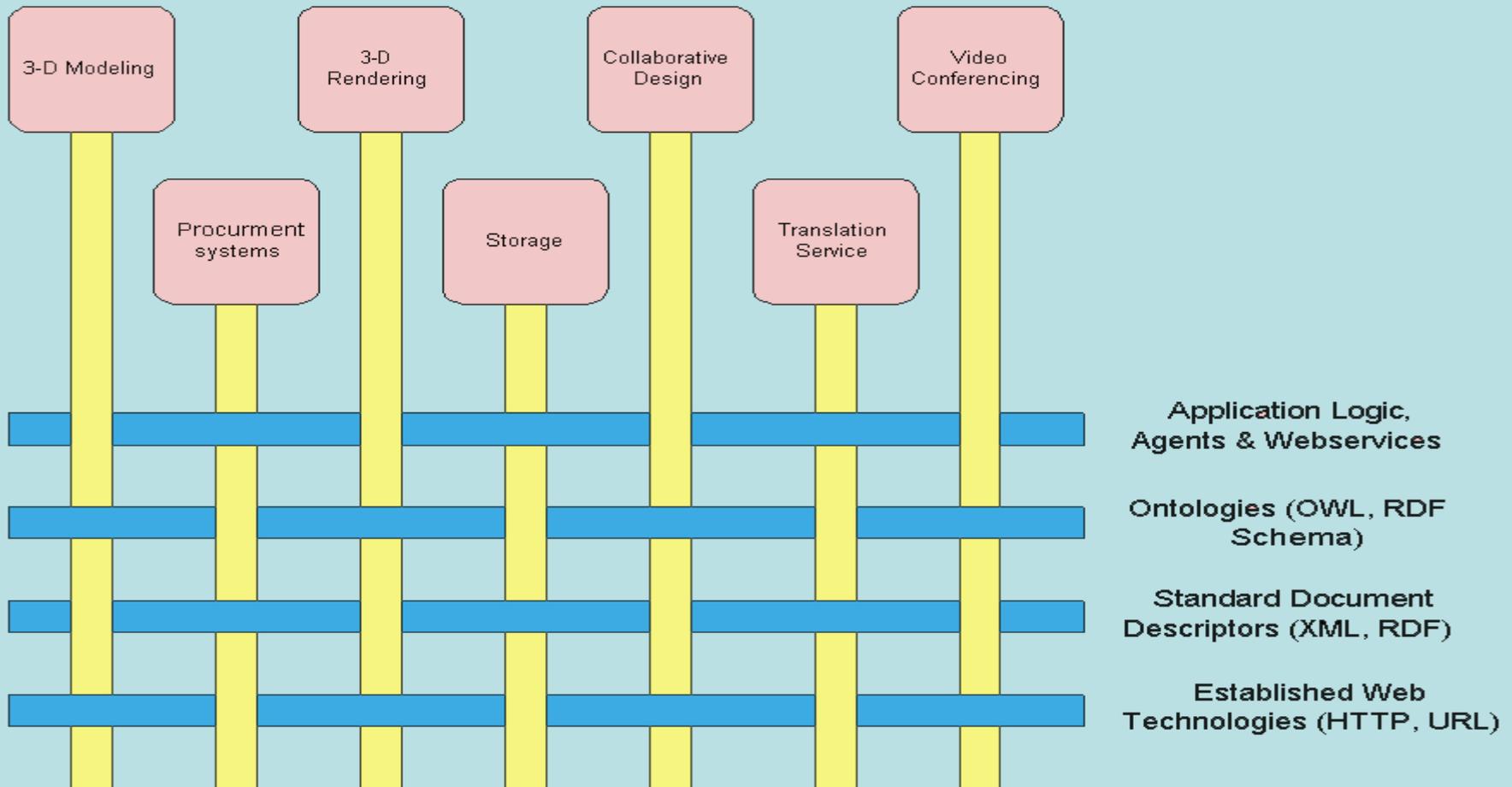
What is the AccessFabrik?

# AccessFabrik

What is the AccessFabrik?

The weaving together of various shared applications, web/grid services and intelligent agents (threads) to create a more robust collaborative space (the Fabric) using AccessGrid technology as a delivery medium

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## Aims of the Project

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1. Create a collaborative “Fabrik”

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Create a collaborative “Fabrik”

2. Multicast enable existing software

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## Aims of the Project

- 1. Create a collaborative “Fabrik”
- 2. Multicast enable existing software
- 3. Research Outputs

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Create a collaborative “Fabrik”

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Create a collaborative “Fabrik”

Use of Semantic Web ontologies to create “smart” web services for the engineering sector with the idea of increasing productivity, improving product development processes and design elements via linkages (ie Fabrik) to existing grid infrastructure.

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Create a collaborative “Fabrik”

These systems could include, but are not limited to, procurement, cost analysis and design systems. These systems could then all be linked on a web services architecture.

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Create a collaborative “Fabrik”

This architecture would be mediated by a newly developed Semantic Services Broker (SSB) Its objective would be to “Marry”:

- Web services

- Grid services

- Collaborative Services

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Create a collaborative “Fabrik”

Intier (a division of Magna International)  
design teams  
manufacturing teams  
parts procurement  
pricing/costing

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Create a collaborative “Fabrik”

Intier (a division of Magna International)

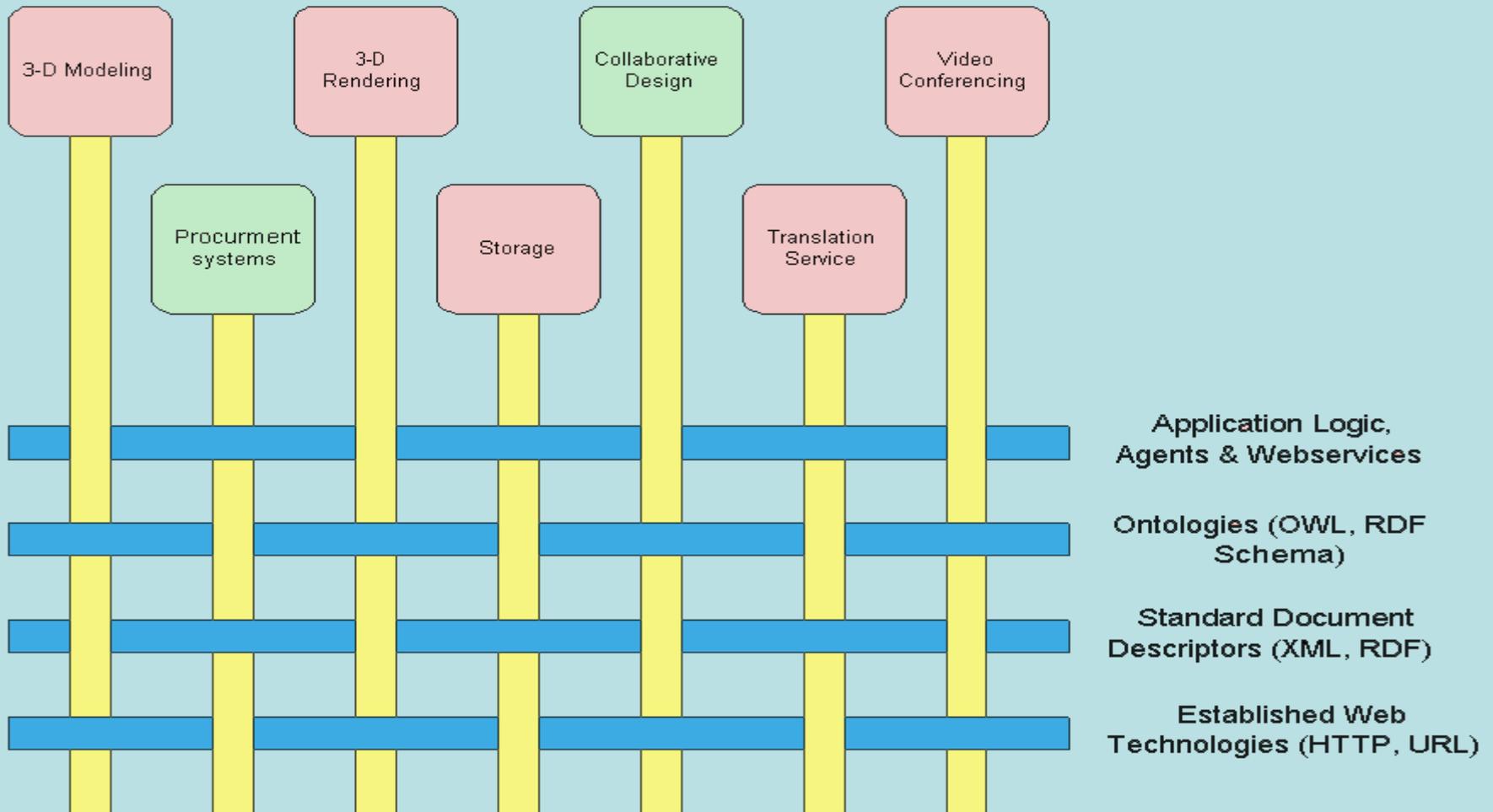
Needs

Meeting space

Visualization space

Intelligent web services

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Multicast enable existing software

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Multicast enable existing software  
Alias Software

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Multicast enable existing software

Alias Software

Studio Tools

An industrial and automotive design suite of software tools which integrates the design process from concept to engineering, to manufacturing.

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Multicast enable existing software

Alias Software

The Portfolio Wall

Software package that allows you to use touch screen technology to view, share, annotate, manage and make decisions on digital assets.

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Multicast enable existing software

Alias Software

Benefits

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Benefits

Enhanced collaborative experience

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Multicast enable existing software

Alias Software

**Benefits**

Enhanced collaborative experience

Localized image control

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Multicast enable existing software

Alias Software

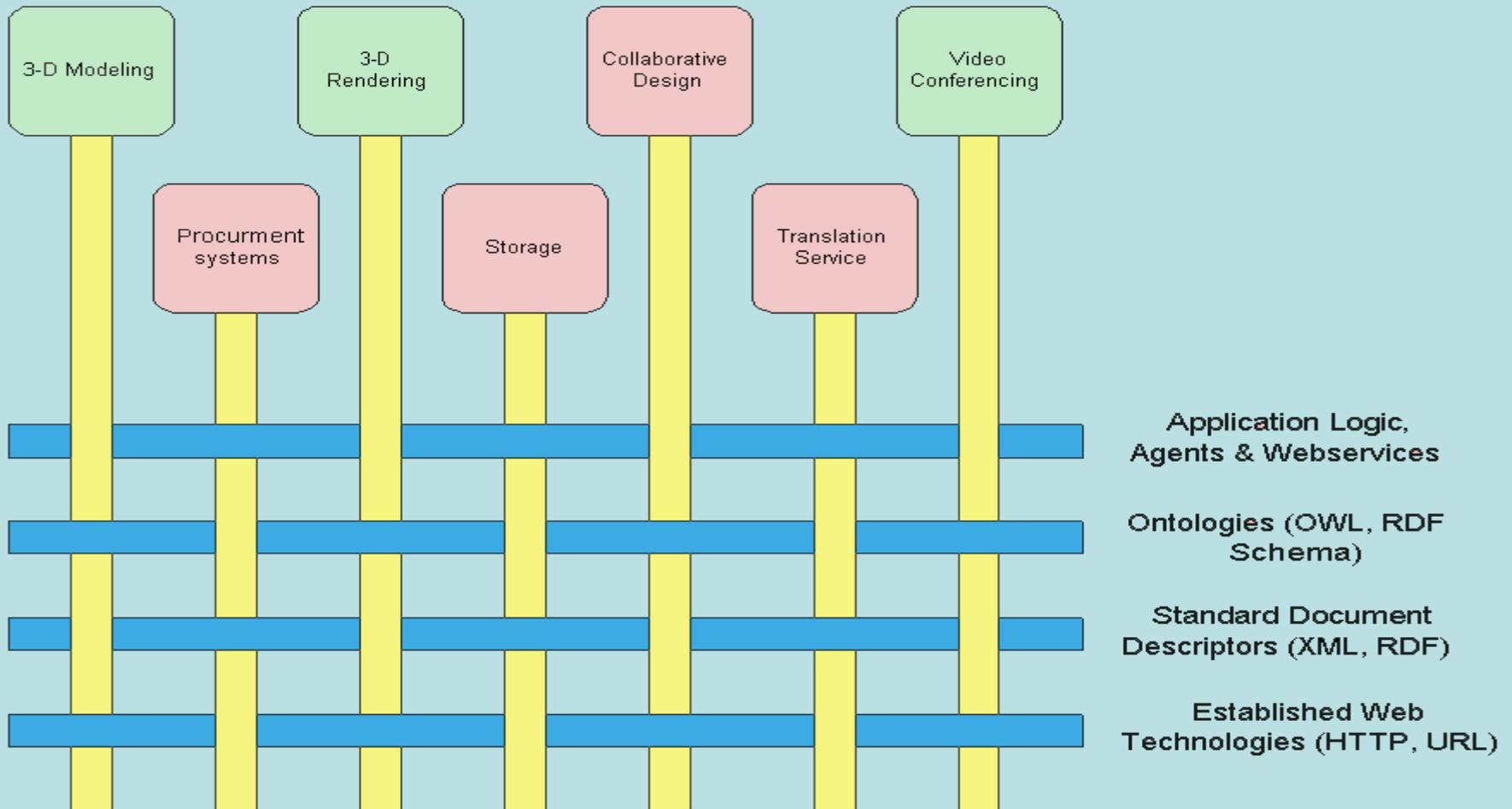
## Benefits

Enhanced collaborative experience

Localized image control

Interactive design capability

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Multicast enable existing software  
Alias Software

[www.alias.com](http://www.alias.com)

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## Research Outputs

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Research Outputs  
Business Roadmap

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Research Outputs  
Business Roadmap

What have we learned that will drive future directions.

What paths will we follow to ensure we will meet future needs

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Research Outputs

Reference Architecture

Based on the research findings, the Reference Architecture will define any future technological developments that will take into account anticipated developments in the semantic web.

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German Collaboration

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German Collaboration

Developing User Scenarios

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German Collaboration

Developing User Scenarios  
Semantic Services

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German Collaboration

Developing User Scenarios

Semantic Services

Business and Technology Roadmaps

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German Collaboration

Developing User Scenarios

Semantic Services

Business and Technology Roadmaps

International Aspects

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## Summary

Magna and Daimler Chrysler want to assess the potential impact of new tools and technologies on collaborative design, a process that is rapidly becoming essential to their core business.

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## Summary

Alias wants to develop a better understanding of how their existing and potential products can better serve industrial users by enabling their tools to be used in a collaborative environment.

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More Information can be found at:

[www.ryerson.ca](http://www.ryerson.ca)

[www.rcc.ryerson.ca](http://www.rcc.ryerson.ca)

[www.alias.com](http://www.alias.com)

[www.intier.com](http://www.intier.com)

[www.fraunhofer.de](http://www.fraunhofer.de)

Thank you.