

bluesign technologies ag

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Question?

What are the biggest challenges your company faces in advancing **more** sustainable chemistry

Chemical Companies What we expect!



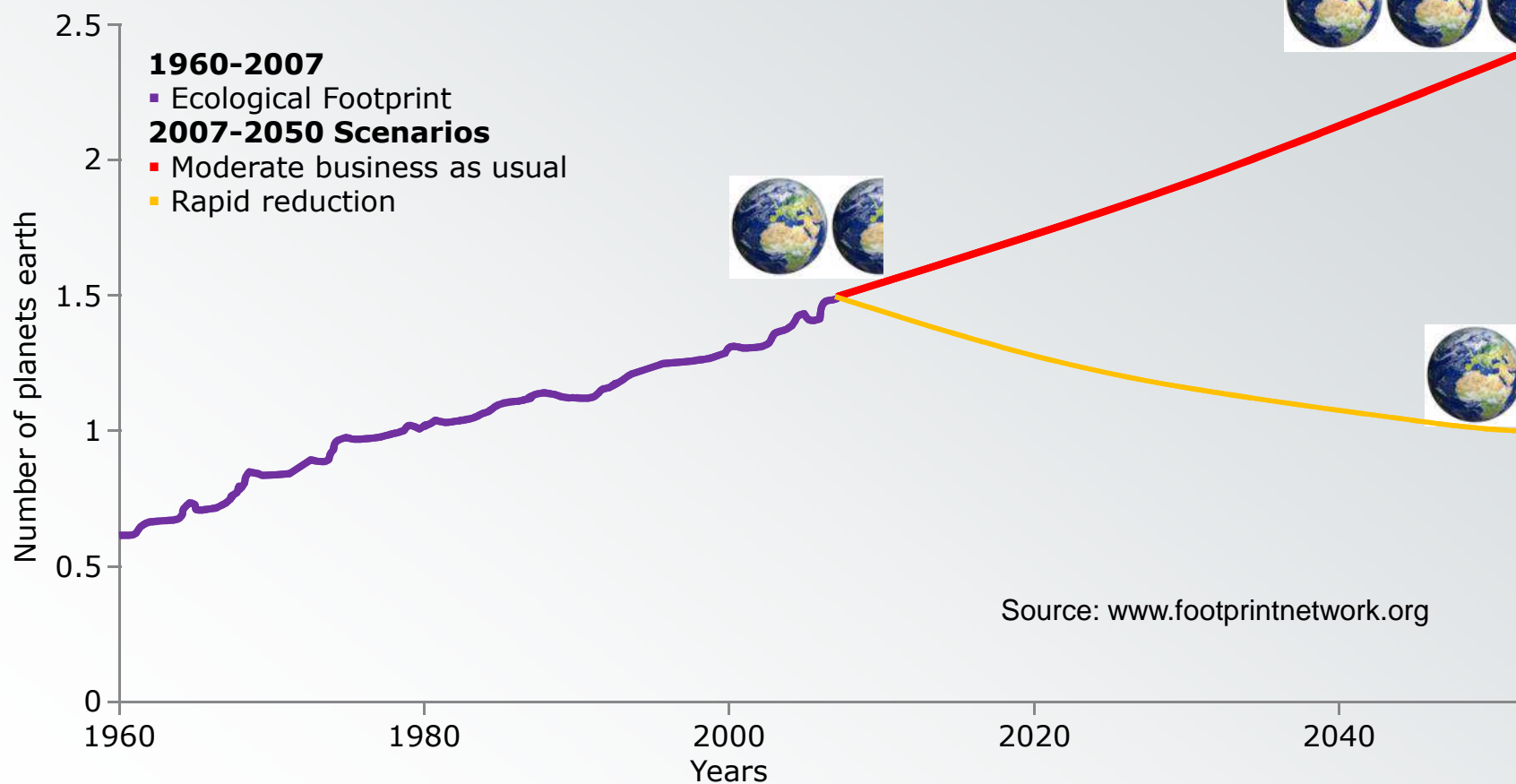


Question?

What have been the most important motivators and contributors to successes in motivating sustainable chemistry



Global Resource Consumption





Prof. Dr. Ernst Ulrich von Weizsäcker; Factor 5

Prof. Dr. Friedrich Schmidt-Bleek; Factor 10

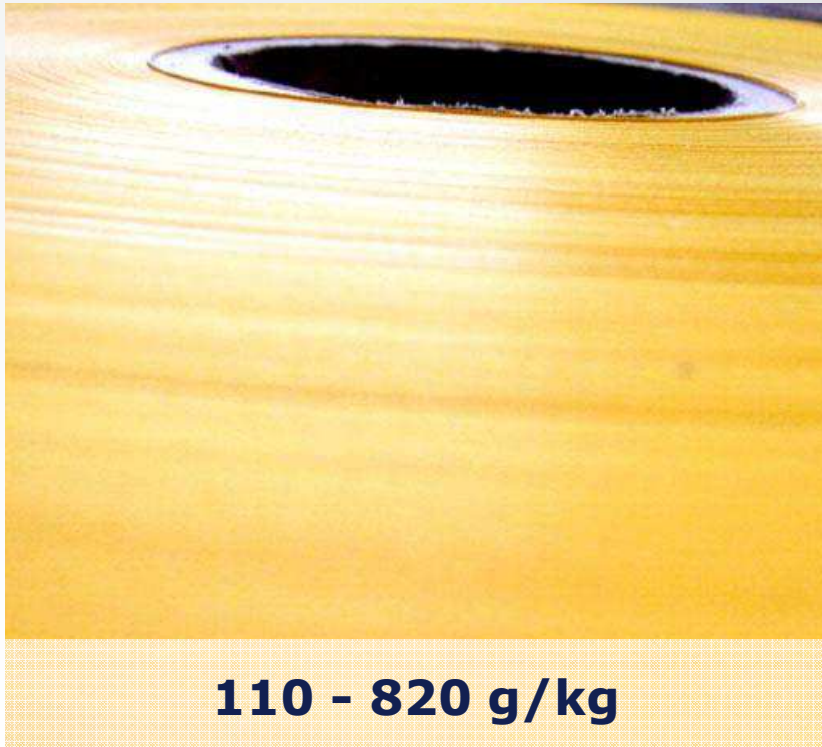
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Black Hole



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Chemical Consumption per kg Textile



110 - 820 g/kg



350 - 1'500 g/kg

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Water Use up to 700 l/kg





Occupational Health & Safety





Waste Water Management



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Waste Management





Question?

What would help the efforts of your company and other companies in the future to accelerate sustainable chemistry R&D and adoption (eg policies, investment, etc).





Stop Ignorance!



Question?

Have you been able to build a business case in your firm for **more** sustainable chemistry? How?

It has become way too complicated to push the problem back upstream

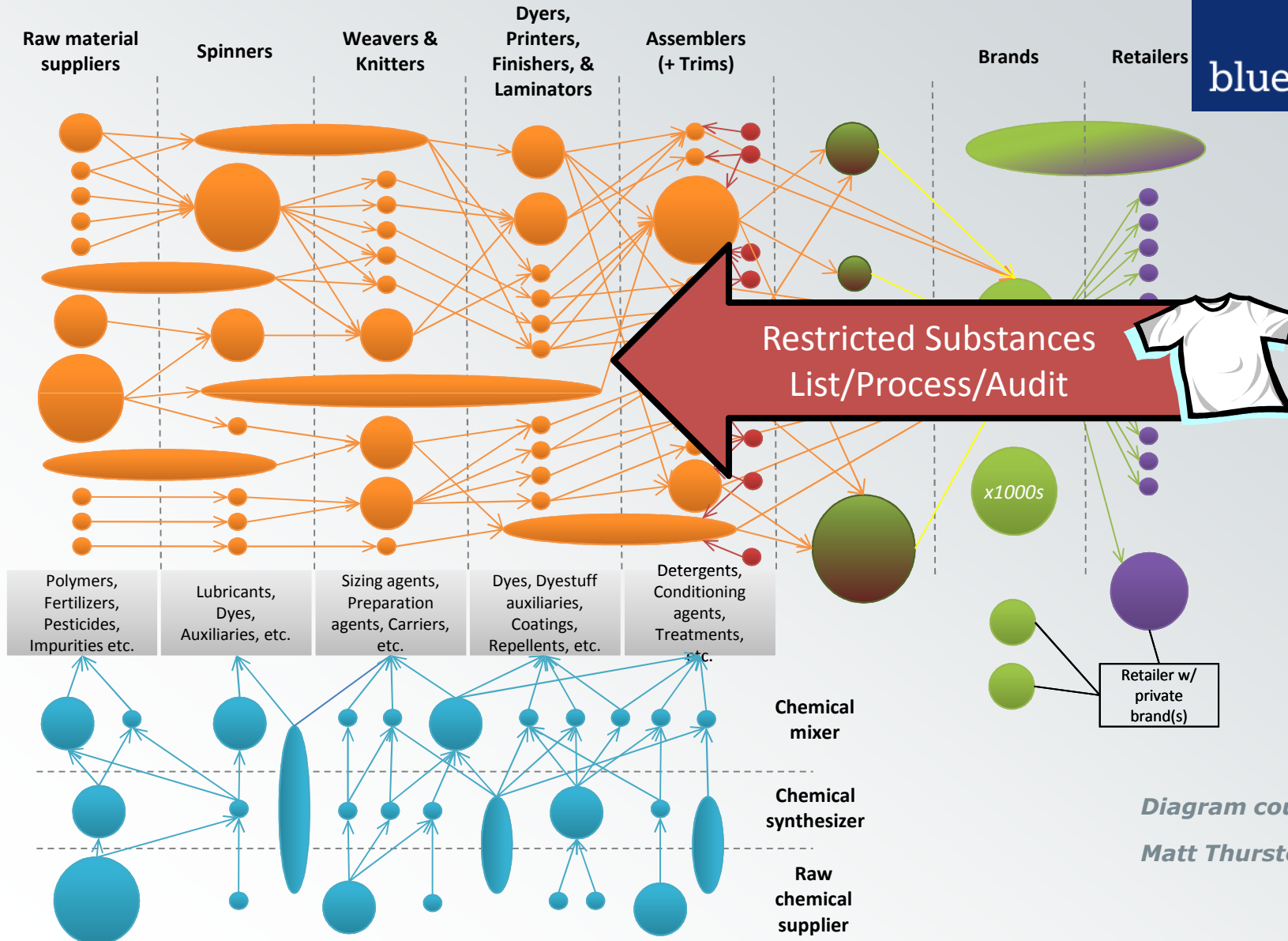
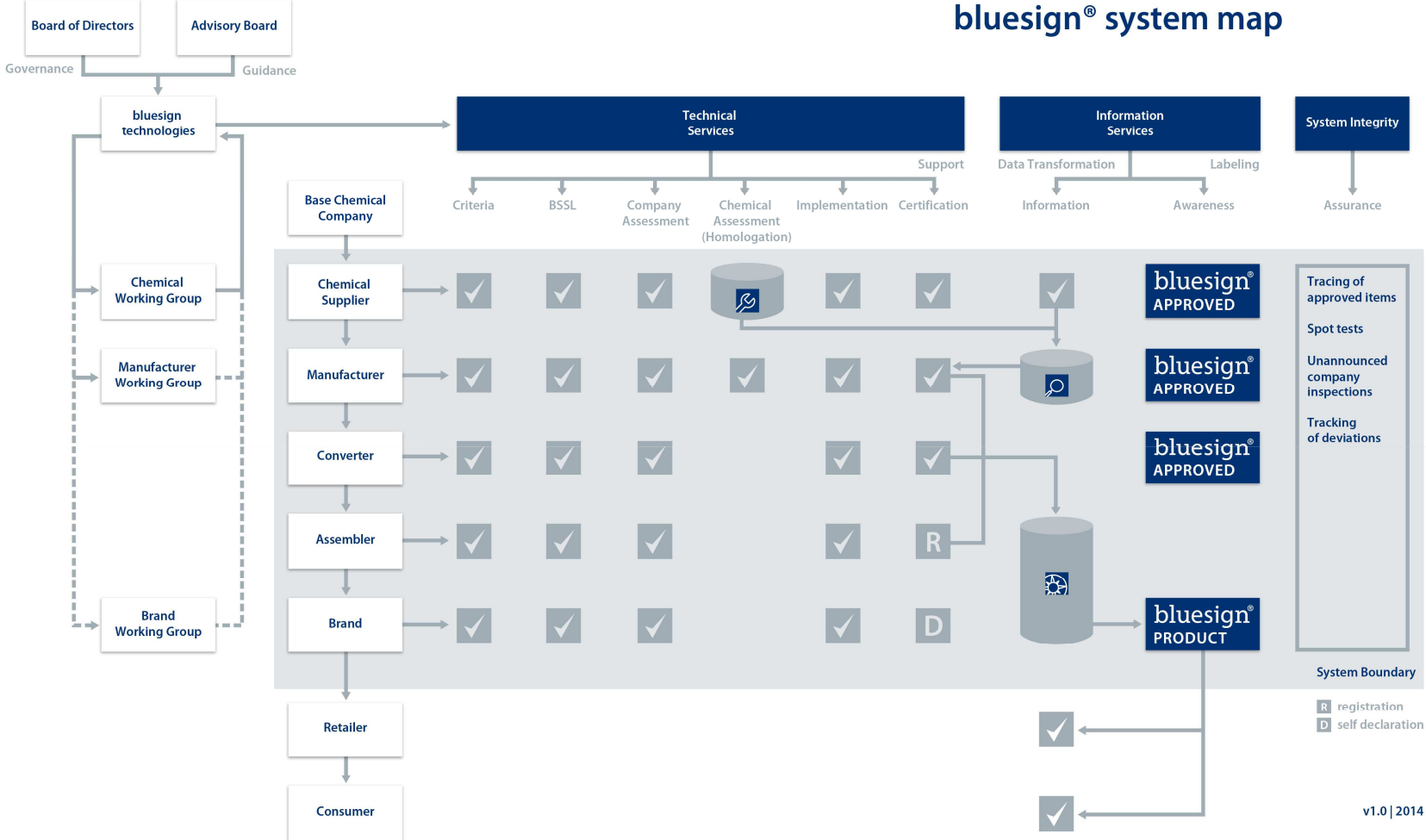


Diagram courtesy of
Matt Thurston, REI

bluesign® system map



v1.0 | 2014



Input Stream Management



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Overview bluesign® criteria



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for production sites

ANNEX DOKUMENTS

Chemical Suppliers

Textile Manufacturer

Garment Manufacturer/Assembler

Leather Processing

Surface Treatment of Metals

Down & Feathers Processing

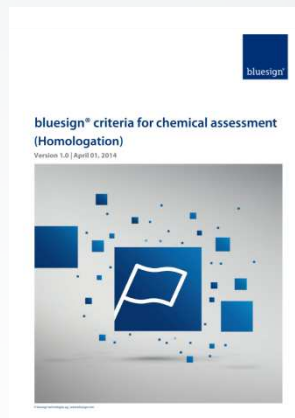




bluesign® criteria

bluesign® criteria for
chemical assessment

ANNEX DOCUMENTS





Fact!

Chemical companies without a “Product Stewardship Program” cannot supply the quality and quantity of data needed for an assessment!

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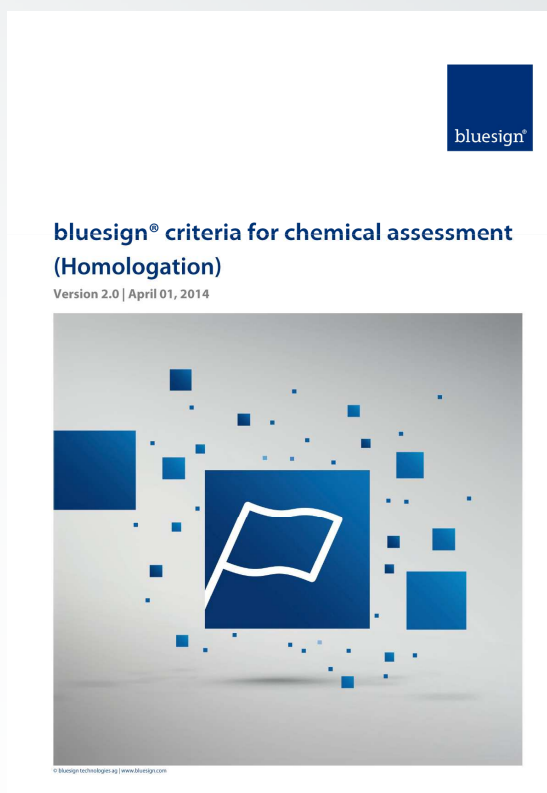
bluesign® criteria for Production Sites



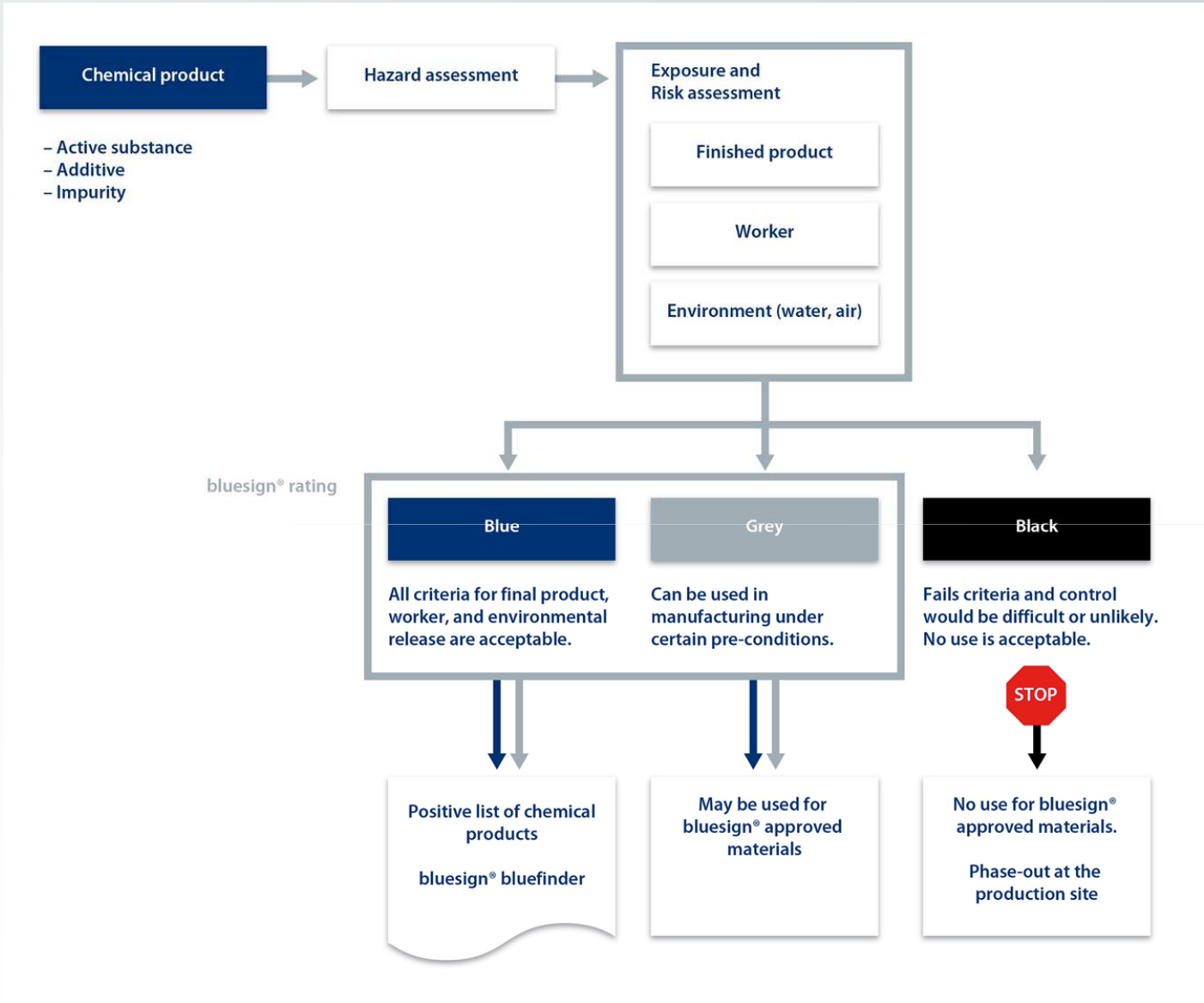
1. Introduction
2. Definitions
3. Guiding principle
4. Legal compliance
5. Social responsibility
6. Management system
7. Input stream management
8. Product stewardship
9. Resource productivity
10. Emissions
11. Occupational health and safety
12. Handling and storage of hazardous chemicals
13. Etc.

bluesign® system

bluesign® criteria for Chemical Assessment



1. Introduction
2. Scope
3. Definitions
4. Concept
5. Data sources
6. Hazard assessment
7. Exposure assessment
8. Risk assessment
9. Validity
10. Other applicable documents
11. Supplement



bluesign® applications

bluesign® bluetool

- Evaluation and rating by an independent third party
- Registration of chemical products
- Publication on the bluesign® bluefinder
- bluesign® bluetool is patented

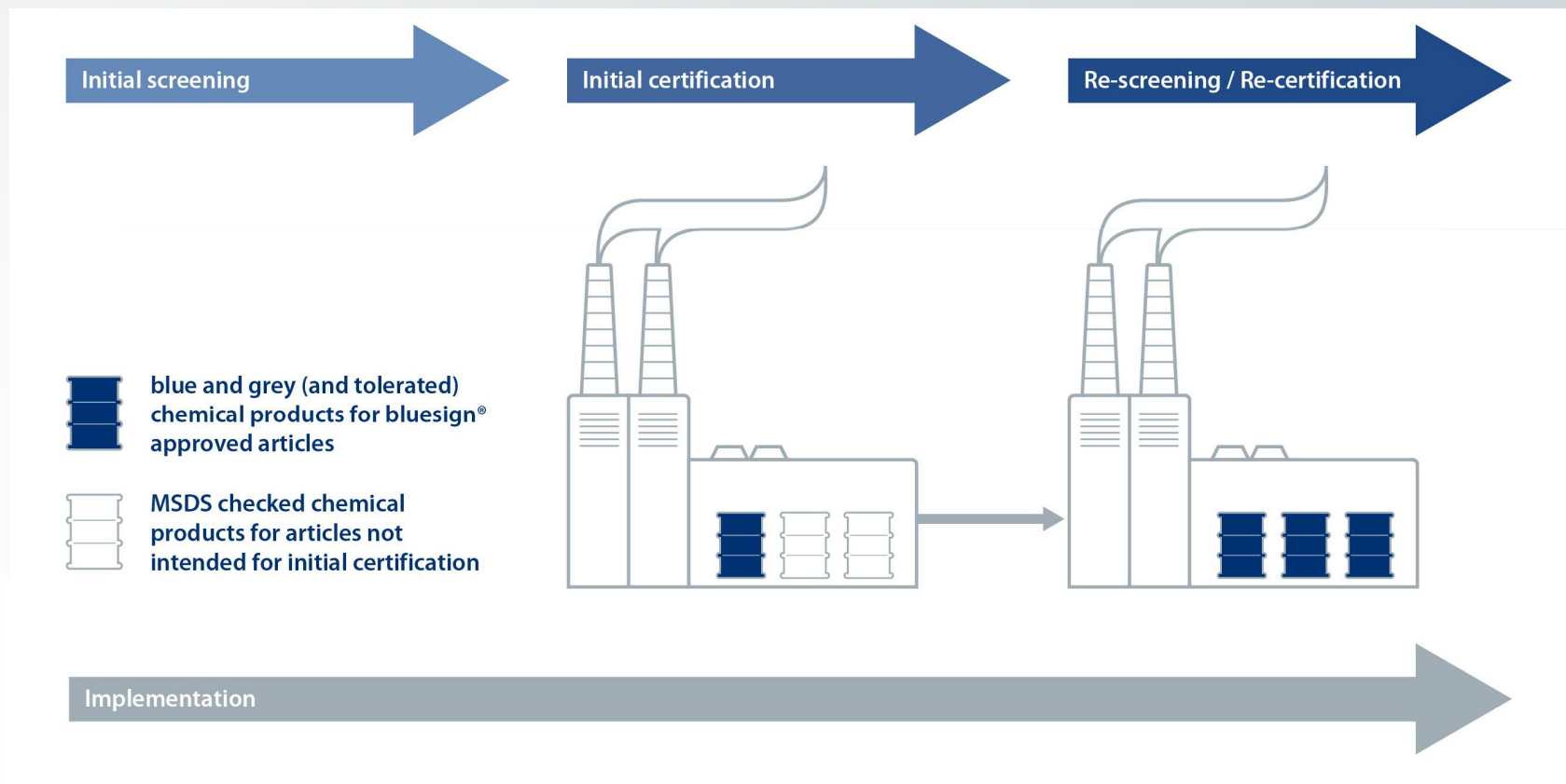


bluesign® bluefinder

- Access to bluesign® approved chemicals
- Sourcing tool for chemical formulations as basis for chemicals management
- Currently more than 6'200 chemical products available
- Currently more than 80 chemical companies
- bluesign® bluefinder is patented

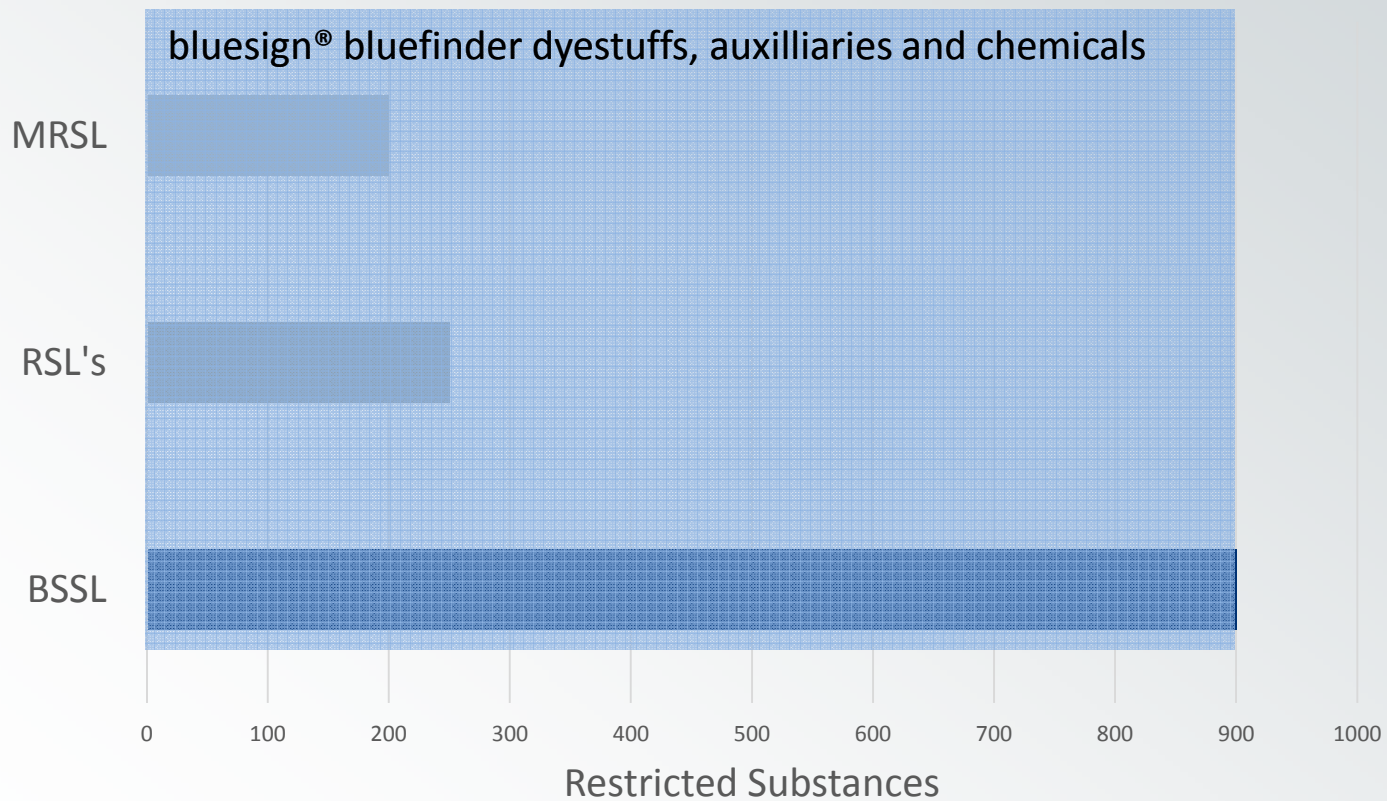


Implementation Process at the Mill Level





BSSL vs. ZDHC MRSL and RSL's



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Thank You!

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