

Challenges and opportunities for the Wood preservation industry

NTR conference, Copenhagen, 7-9 November 2018

Challenges and opportunities

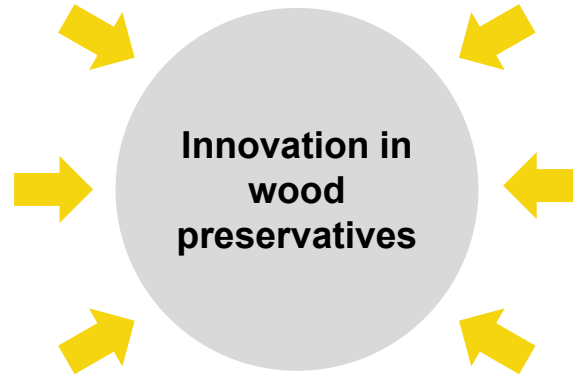
- **BPR** – Challenges, consequences and opportunities
- **Innovations**
- **Eco labelling**
- **Example from Wolman**

Innovation of wood preservatives - Some influencing factors

(1) Raw material prices
(f.ex. Copper)

(2) Timber prices

(3) BPR restrictions



**(4) Cost for registration
of actives etc.**

**(5) Competition / price
pressure from market**

(6) Quality expectations

BPR challenges

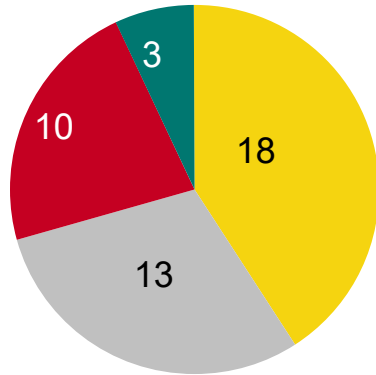
More and more exposure studies required, leading to:

- *Increasing* costs for registration
- *Increasing* time spent for registration
- *Decreasing* the number of lasting co-biocides

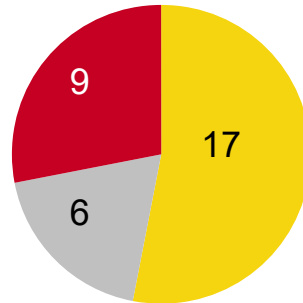
Consequence of BPR (October 2017)

Actives:

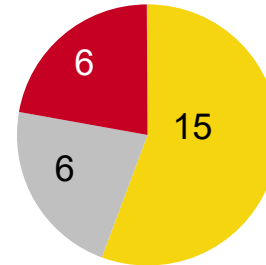
44 approved or
under investigation



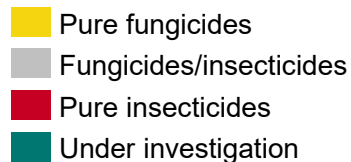
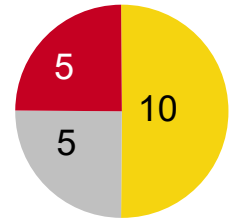
32 approved,
no "exclusion
criteria"



27 approved,
no "exclusion
and substitution
criteria"



20 approved,
no "exclusion
and substitution
criteria" or
niche-applications



→ Only **15** fungicides remain with long term potential
(Only **4** chemical "families")!

→ **Less room** for product differentiation

BPR challenges

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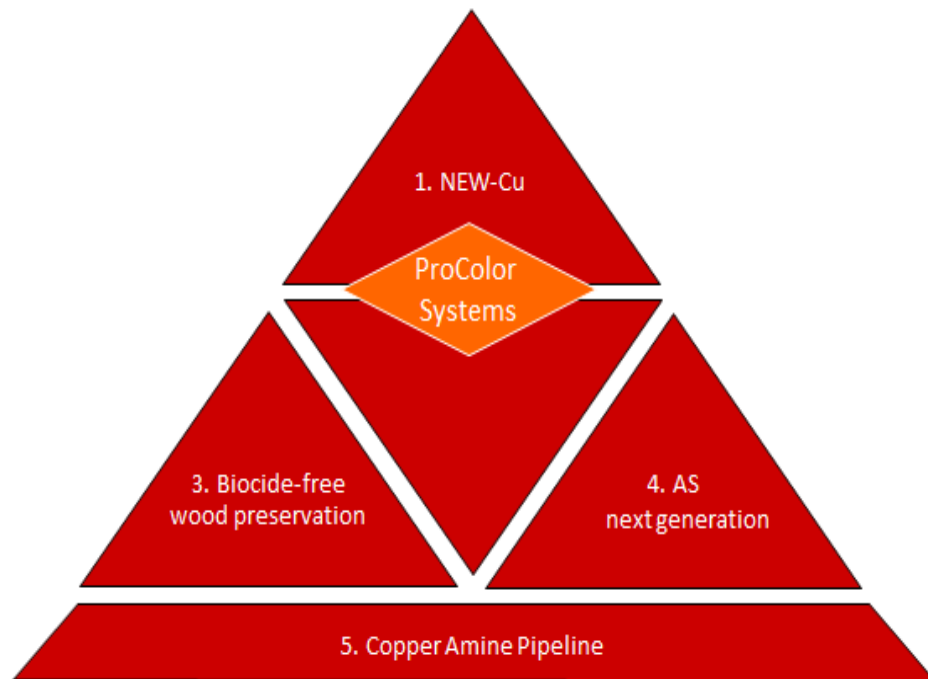
CMR classification of common co-biocides:

- 1) Propikonazol → R61 cl. → 5 year re-registration, SoE*
- 2) Tebukonazol → R63 cl. → 7 year re-registration, SoS**
- 3) Boric acid → R61 cl. → 5 year re-registration, SoE*
- 4) Cyprokonazol → R61 cl. → 5 year re-registration, SoE*

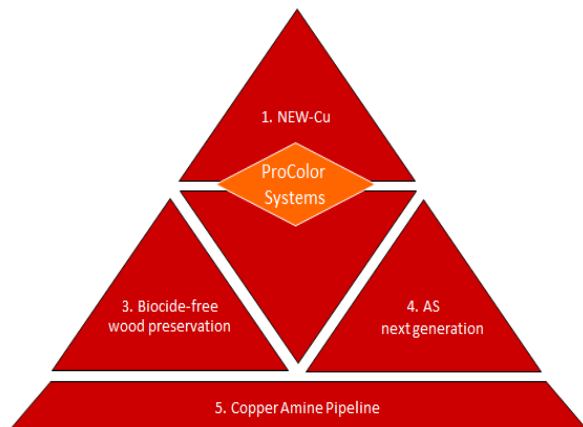
* Substance of Exclusion

** Substance of Substitution

How can Wolman's R&D innovate within BPR framework?



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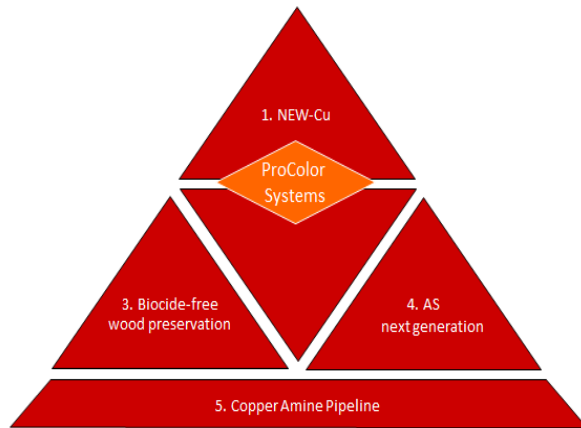


What?

Developing new techniques to:

- Optimize Cu/co-biocide relations in preservative formulations (*efficacy, cost, environmental profile*)
- Better withstand copper tolerant fungi (*ensuring long term efficacy*)

How can Wolman's R&D innovate within BPR framework?



What?

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How?

R&D development made possible by:

- Use of newly developed & exclusive active ingredients from BASF agro chemicals
- Use of exclusive BASF formulations and techniques

Eco-labelling

- **Svanen** – use of treated articles:

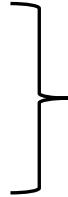
Actives can't be based on *arsenic, chromium, organic tin compounds, boron or creosote oil.*



- **Byggvarubedömningen**

- **BASTA**

- **Sunda Hus**



General demand for treated articles:

The amount of boric acid in the end product shall be less than 0,01 weight%

Wolmanit CX-8WB, according to NTR A and NTR AB, is already registered in these three labels, and approved in "Swan labelled" buildings

Actives in Wolmanit CX-8 and Wolmanit CX-8WB

Preservative	Active	% m/m kg/m ³	Ret NTR AB kg/m ³	Ret NTR A kg/m ³	Active NTR A timber
Wolmanit CX-8	Cu	8,02	9,0	18,0	0,72
	HDO	2,30			0,21
	BA				0,06
Wolmanit CX-8 WB	Cu	8,02	9,0	18,0	0,72
	HDO	2,30			0,21

Performance of Wolmanit CX-8WB

- Data from NTR 3rd party control in Sweden (RISE) and BASF Wolmans quality control from October 2017 until June 2018:

■ NTR AB:	Wolmanit CX-8WB	7 samplings	96 samples / 6 miss	6 % miss
	Wolmanit CX-8	31 samplings	531 samples / 21 miss	4 % miss
■ NTR A:	Wolmanit CX-8WB	8 samplings	117 samples / 6 miss	5 % miss
	Wolmanit CX-8	28 samplings	402 samples / 9 miss	2 % miss

Summary

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We create chemistry