

RAGN-SELLS TYRERECYCLING

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REUSE OF TYRES –

A PRODUCERS RESPONSIBILITY IN SWEDEN AND NORWAY



155 000 tons of tyres 2018 in both Sweden and Norway

Entrepreneur to SDAB and NDR: Collect and reuse

Reuse fee

COMBINING PERSPECTIVES – FINDING APPLICATIONS

RESOURCE EFFICIENCY

Saving earth´s resources?

Is there a real demand?

Waste hierarchy vs. risk and circularity

SAFETY

Health aspects?

Environmental aspects?

Chemical content and exposure scenarios

CIRCULARITY

Easy to recycle again?

Downcycling?

Joint Venture?

CRUMB RUBBER PLANT

Textile



Crumb Rubber



Steel



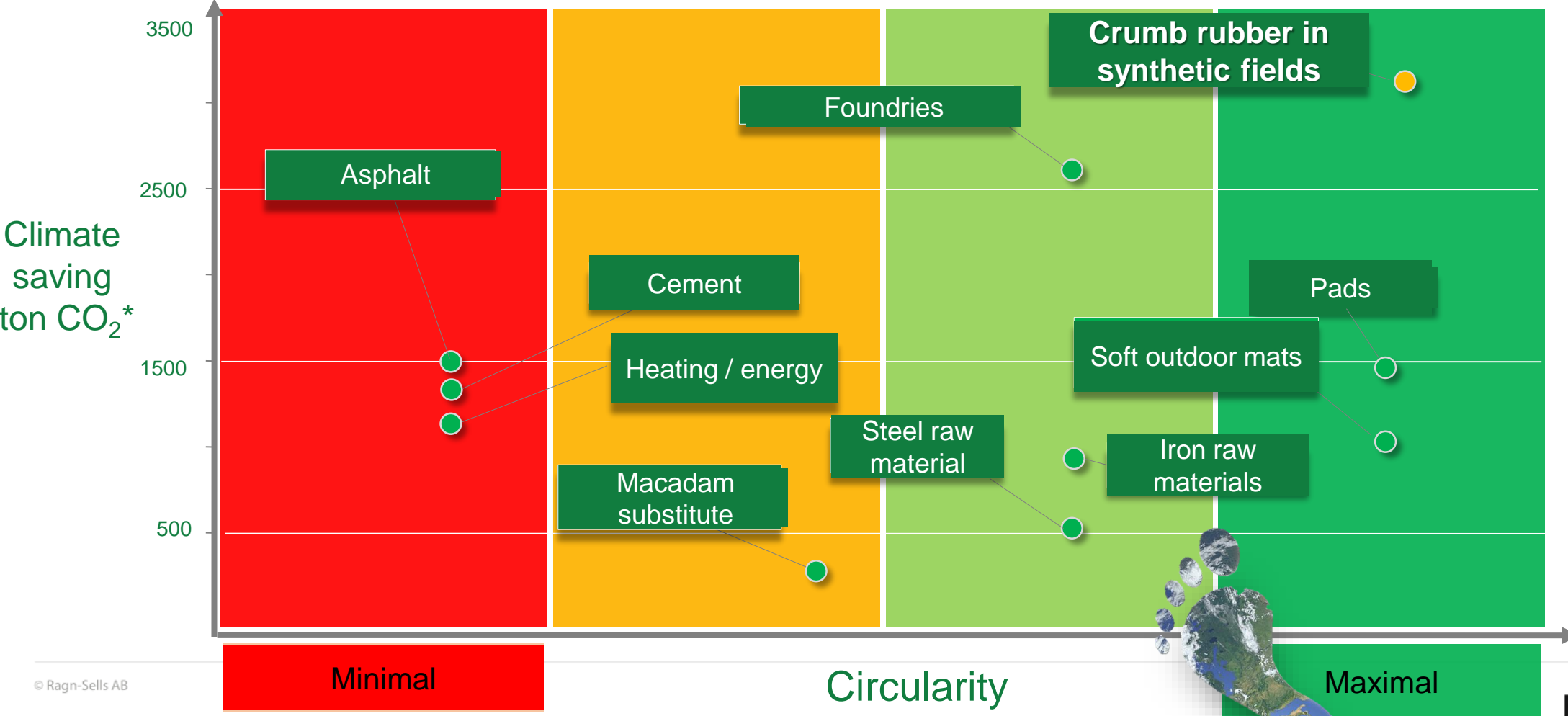


RESOURCE
EFFICIENCY

SAFTY

CIRCULARITY

RESOURCE EFFICIENCY COMPARISONS



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*CO₂ based on european lifecycleanalysis compiled by ETRMA



RESOURCES EFFICIENCY

LIFECYCLE ANALYSIS INFILL

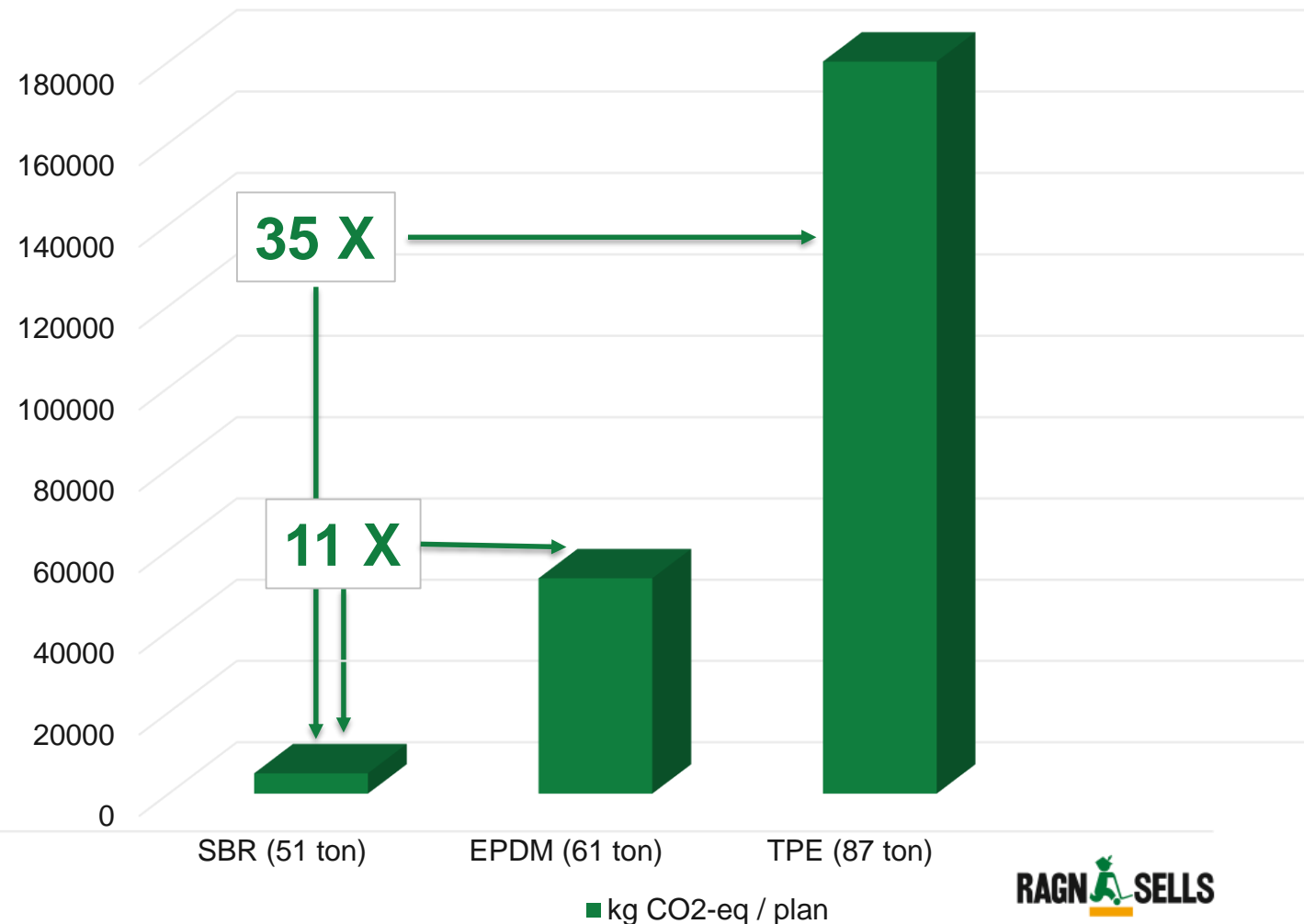
LCA on infill to synthetic turfs: IVL, 2012

Climate, overfertilization, acidification and ozone

From production, transport etc, to usage

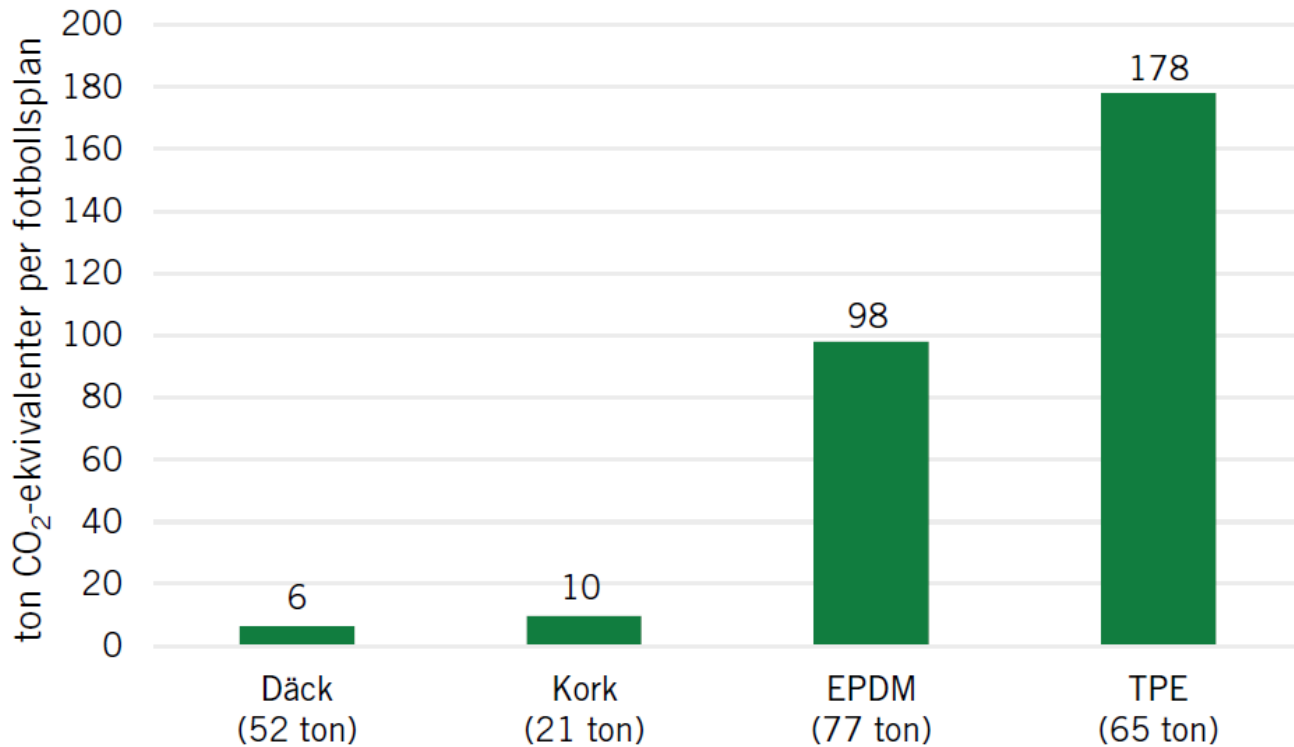
SBR – Styrene Butadiene Rubber
EPDM – Ethylene Propylene Diene Monomers
TPE - Thermoplastic elastomers

CLIMATE IMPACT

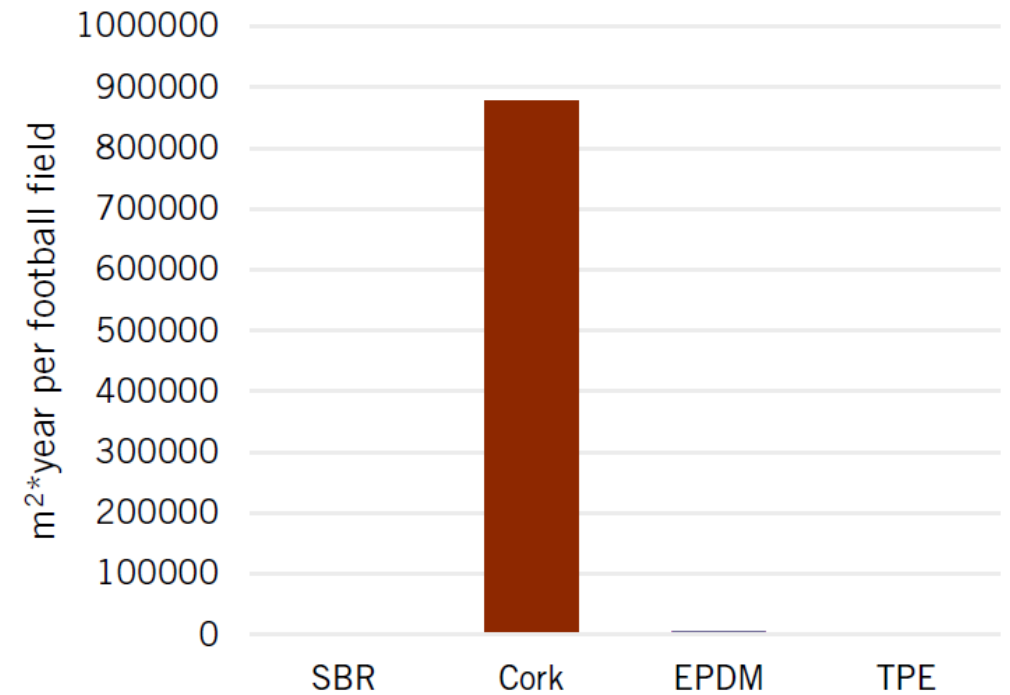


RESOURCES EFFICIENCY

Konstgräsplaner Klimatpåverkan



Artificial turf Agricultural land use



SAFETY

ENVIRONMENT - MICROPLASTICS

Recommendations for safe use

Built a synthetic field with all recommended measures

Measure micro plastics and leaching of substances

Participate in SIS/CEN for test methods





Recommendations









SOME OF OUR ACTIVITIES

ACTIVITIES	WHY
”Productification”	From waste to product, same terms as virgin products
ETRMA/FoBIG	More health data on synthetic turfs
Microplastic measurements	To verify safe use of our material
LCAs	Life cycle analysis: comparing different infill
CERUB	Certification of the recycling process
Sorting-projects	Right tyre to right application
ECHAS microplastic restriction	Answering the proposal for a ban on microplastics - infill



THANK YOU!

www.ragnsellstyrerecycling.com