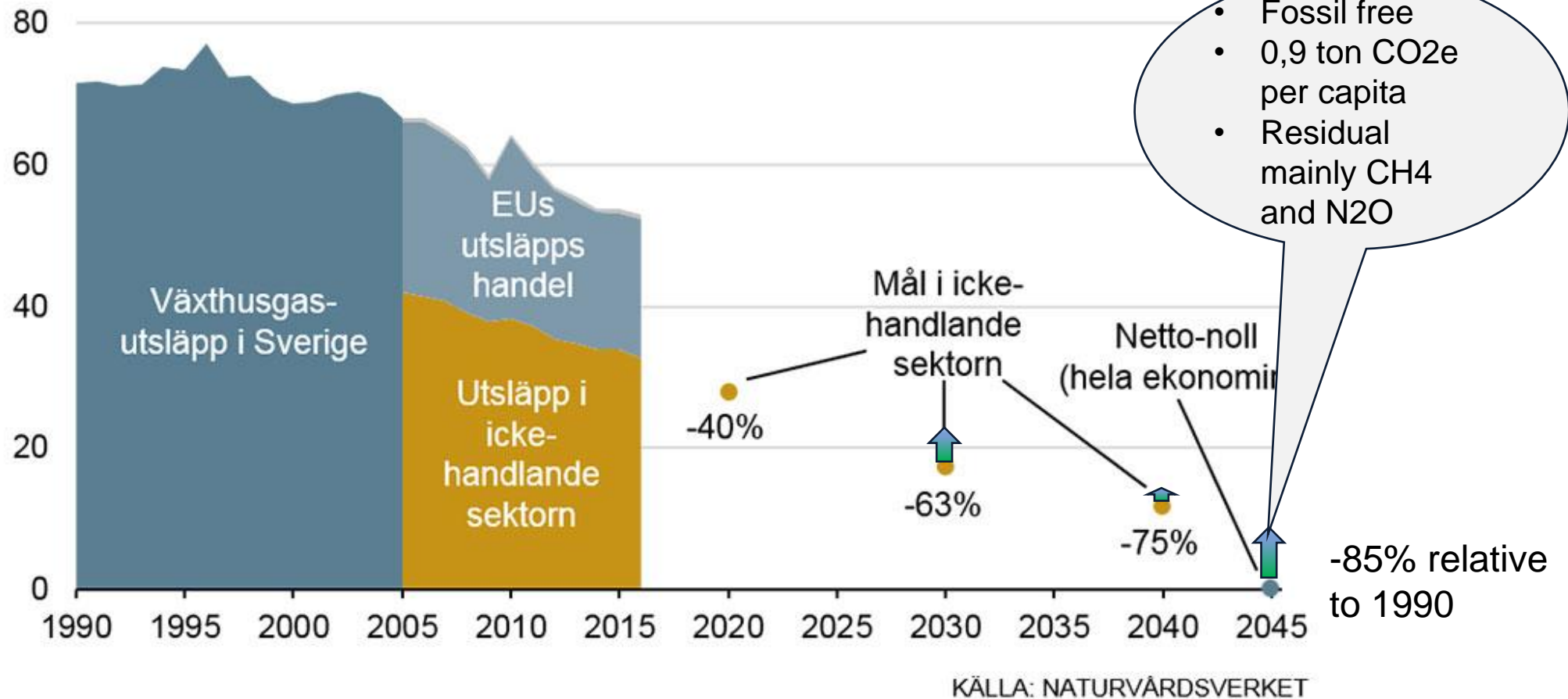


Strategy for net-negative emissions – Committe proposal from 2020 and further steps

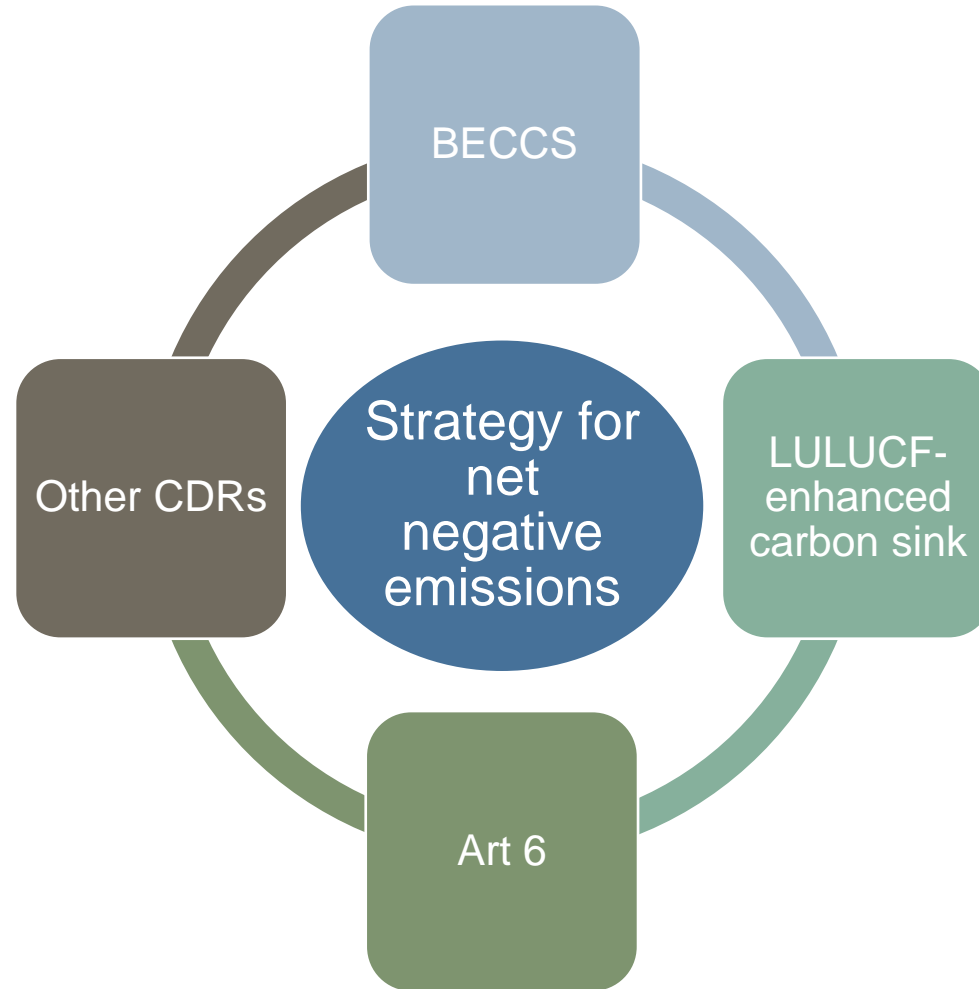
Eva Jernbäcker Swedish EPA
18 june 2021

Climate targets in the Swedish climate policy framework (2017)



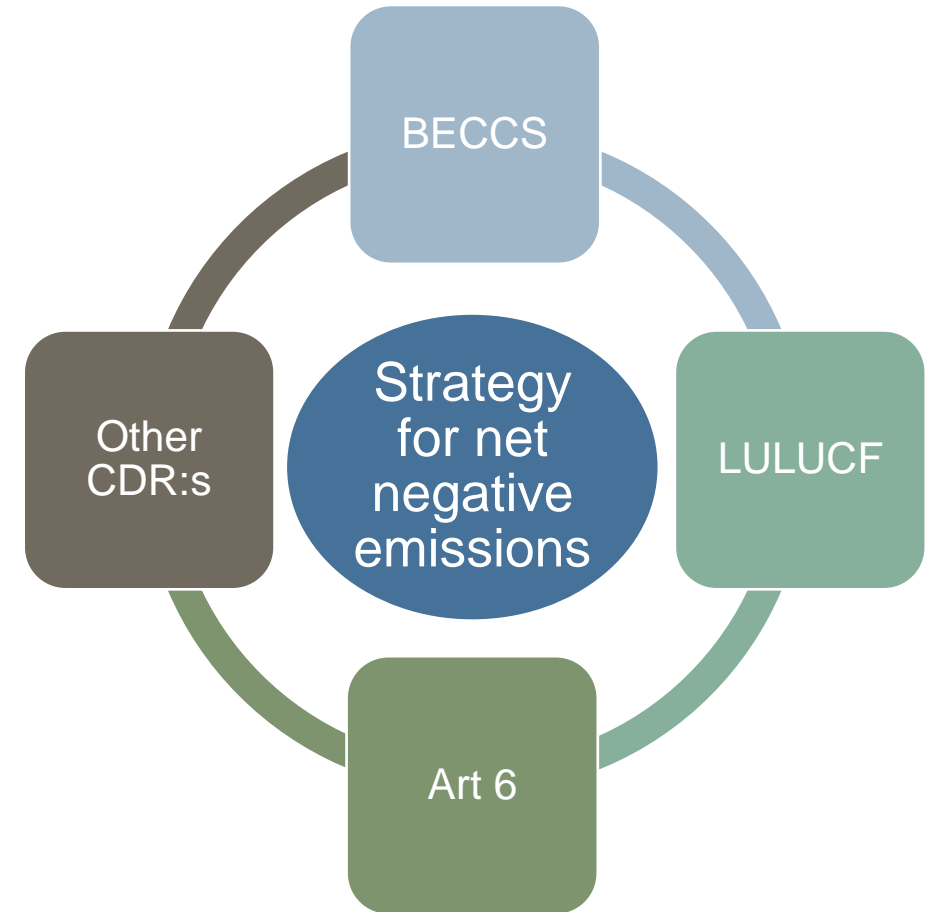
Work of the committee

- Propose strategy for net negative emissions (complementary measures) beyond 2045
- Q4 2018-Q1 2020
- Secretariat + 34 experts from industry, academia, NGOs, government agencies.

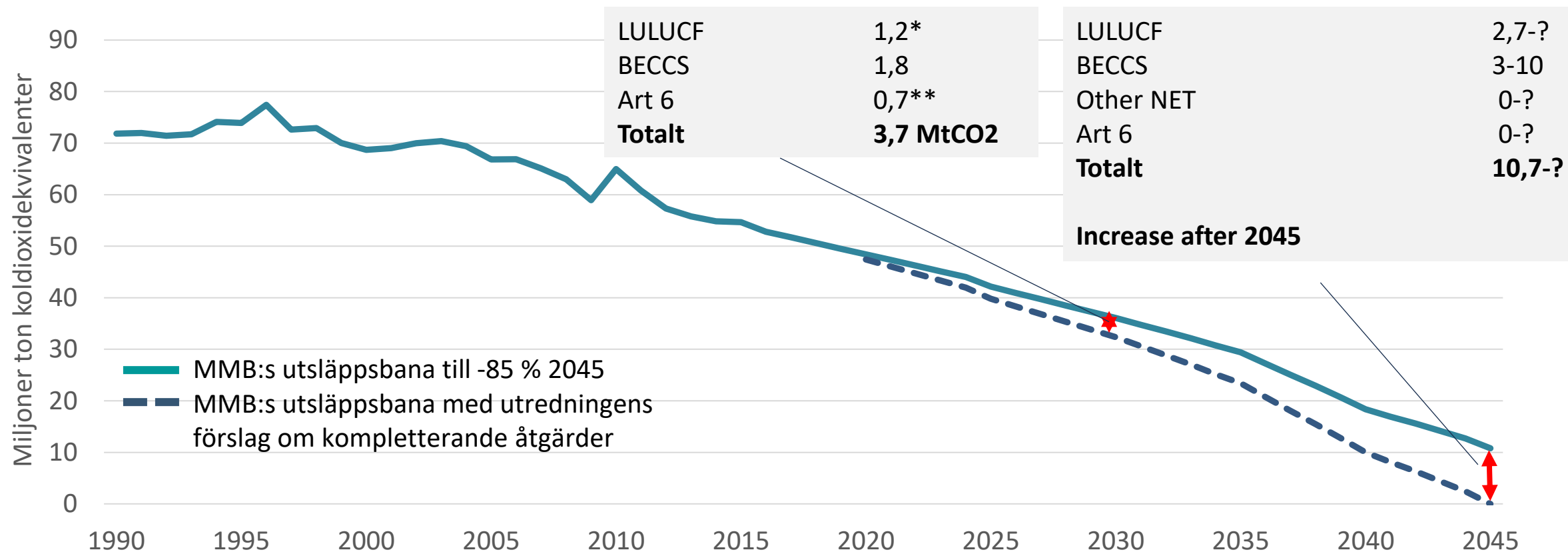


Strategy and action plan

- 52 concrete near-term measures
- 4 constitutional proposals



Proposal in numbers



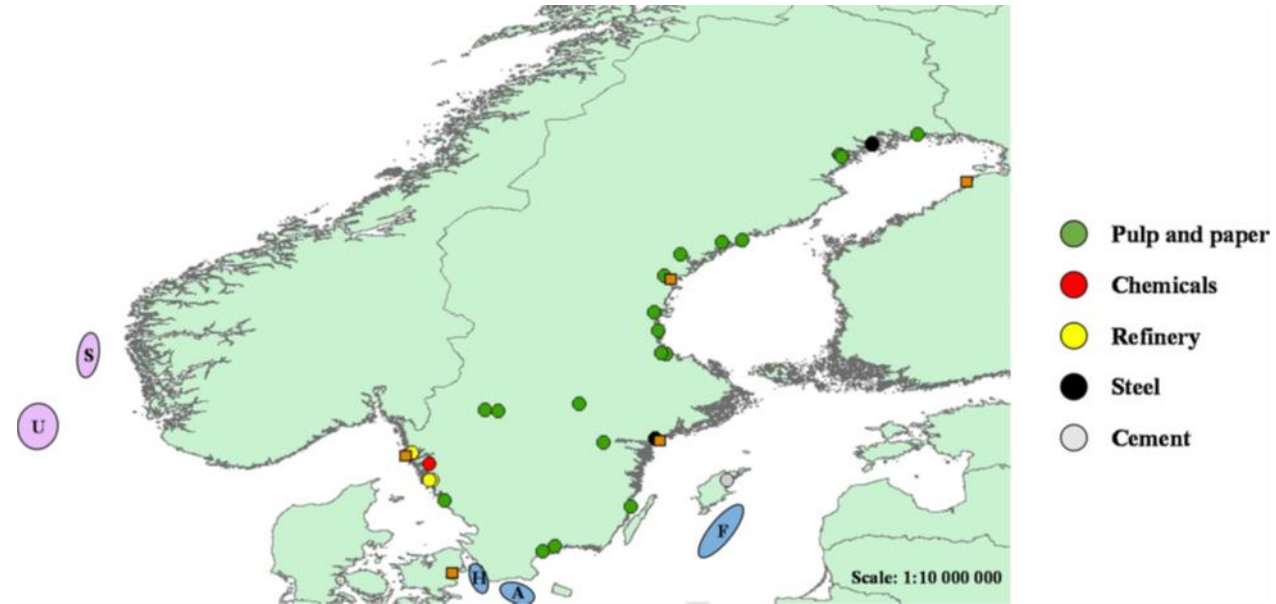
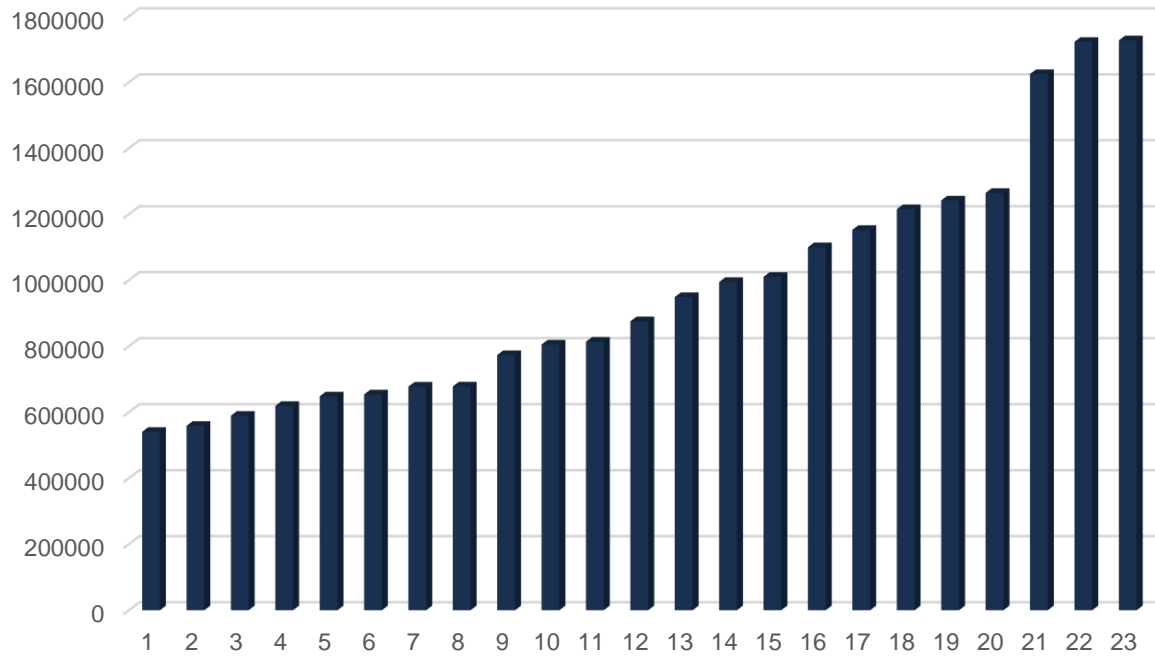
LULUCF

- Information/counselling and financial incentives for increased CDR in *agriculture and forestry*
- Focus on additional measures
- *Steps taken, new assignments at agency level, reporting details, CAP, EU-certificates?*

Measure		Area (ha) 2045
Catch crops, increased use		400 000
Agroforestry		50 000
Energy crops		40 000
Afforestation		150 000
Wetland restoration	Forest	100 000
	Agr. land	10 000

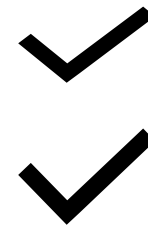
BECCS – large point sources

Biogenic CO₂ sources larger than 0.5 Mt/yr



BECCS

1. Proposes introduction of economic incentives for full-scale commercial projects
 - Reverse auctions (2 Mt/yr, 3-5 projects) , **steps taken, 2022?**
 - Gradual transition to market-based instruments (preferably EU-wide), **how?**
2. Remove legal barriers **steps taken, further steps needed , long –term economic uncertainty a barrier**
3. Make SEA coordinating government agency
4. Create CCS/BECCS center hosted by SEA



For more information

BECCS

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LULUCF

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Extra slides

International offsets (Art 6)

- A new programme for Article 6 units: 20 Mton until 2030
- Partly to be used towards neutrality target, partly pure climate finance ("buffer")
- Ambition level of host country NDC, prevent transfer of hot air, ambition raising
- CDRs:
 - Create incentives for CDRs deployment where most favourable
 - On long-term increasing share of units purchased should be based on CDRs activities.

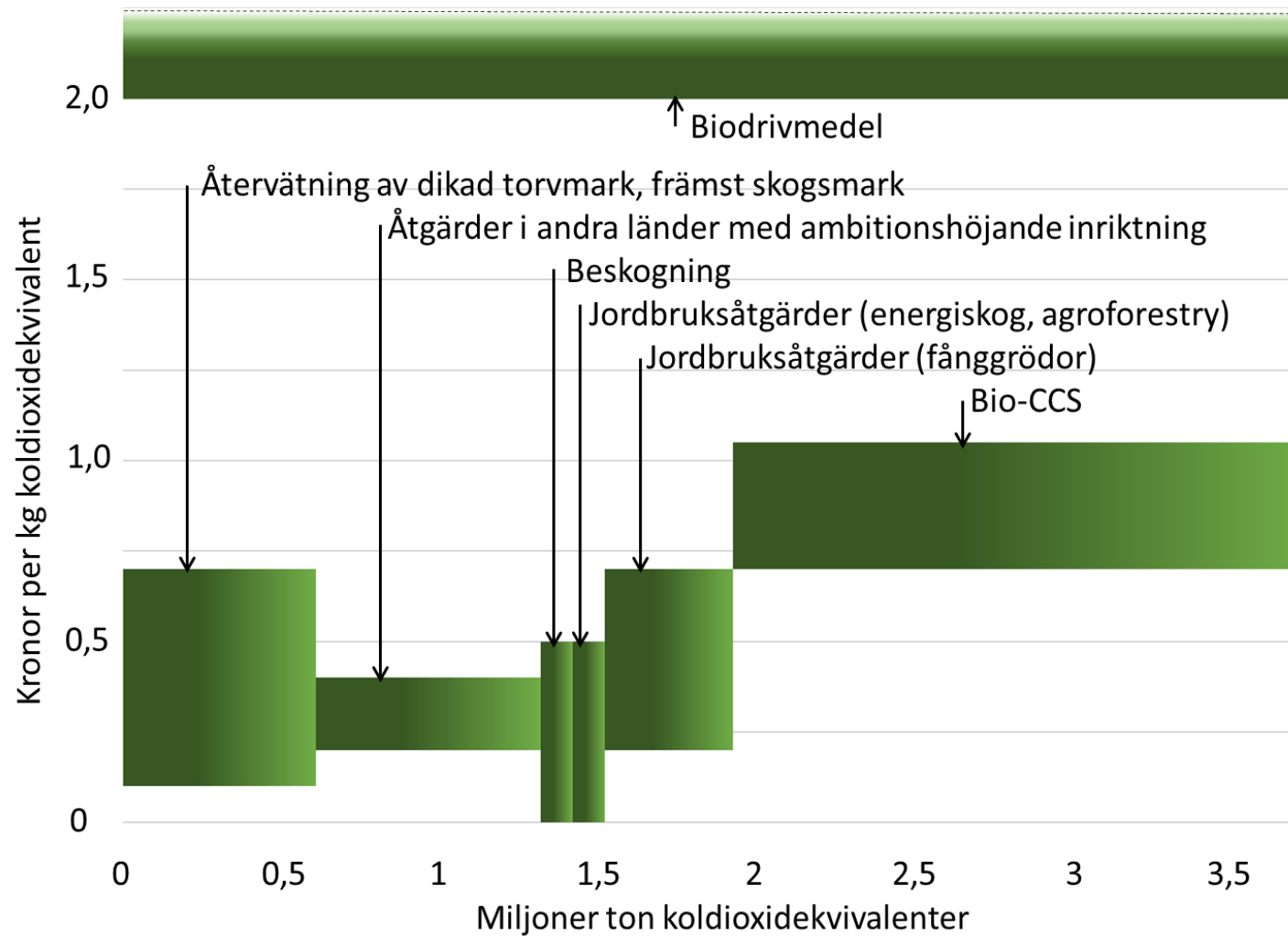


Other technical CDRs

- Biochar highlighted as promising option
 - Proposes maintained support to further knowledge formation
- DACCS is given some attention but in favour of BECCS



Abatement costs 2030



- *Stockholm Exergi*
 - Currently testing HPC capture technology
 - Advanced plans for 850 000 ton CO₂/yr project
- *Vattenfall & Uppsala municipality*
 - Feasibility study
 - Current and future capture technology, logistics
 - Potential contribution to Uppsala carbon neutrality target 2050
- *StoraEnso*
 - Feasibility study for full-scale BECCS at Swedish sulfate pulp mill



Tack!

