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Potentials of on-farm methane mitigation measures

Preliminary results

Berlin, 14 October 2026

New study by Agora Agriculture

- Focus & Contribution
- Approach & Methodology
- Preliminary Findings & Learnings



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The contribution

We aim to contribute to...

- the factual basis for the discussion and
- a solutions oriented and depolarised debate

By providing a better understanding on the potentials of mitigation technologies

- **Interactions of measures**
- **EU-wide comparison**
- **Deep dive in 7 member states**
- **Qualitative assessment (Expert interviews)**
- **Quantitative assessment (CAPRI)**
- **Policy options**

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Total mitigation potential and contributing factors

What is the practically achievable **methane emission reduction potential** in the EU livestock sector?

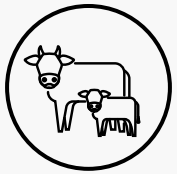
〉 On the order of **20 %**

Contributing factors

- **Technical reduction potential**
- **Regional production structures**
- **Cost of adoption**
- **Current adoption levels**
- **Existing financial incentives**
- **Barriers of adoption**

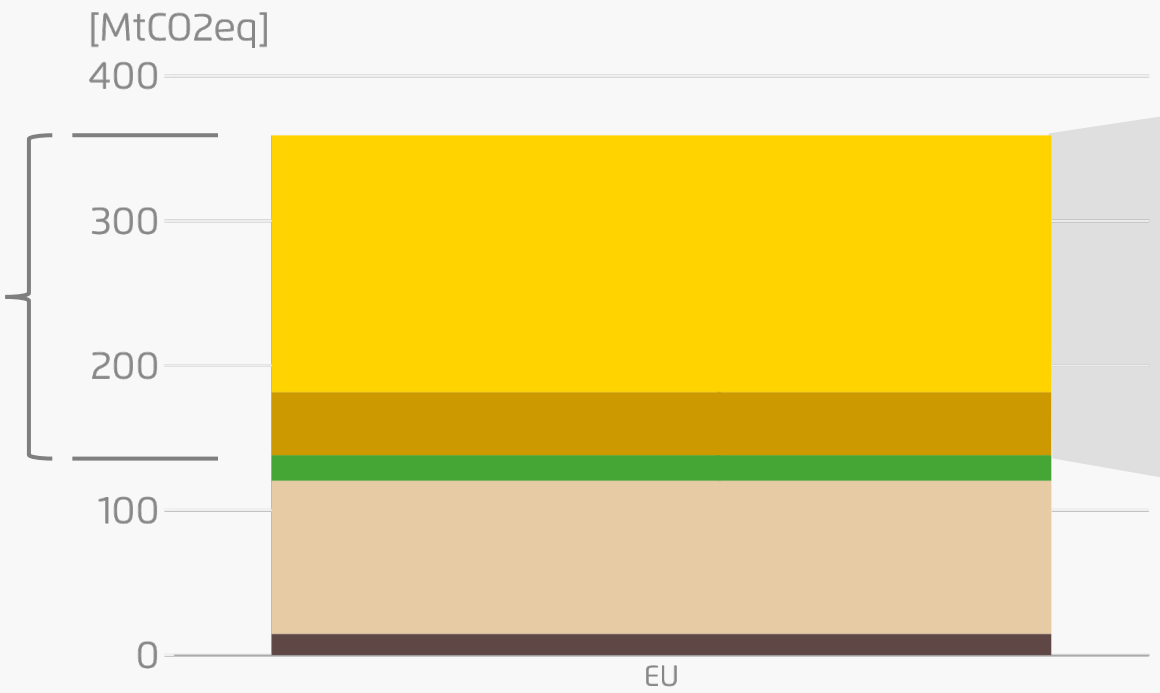
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Methane emissions from the EU livestock sector in 2024

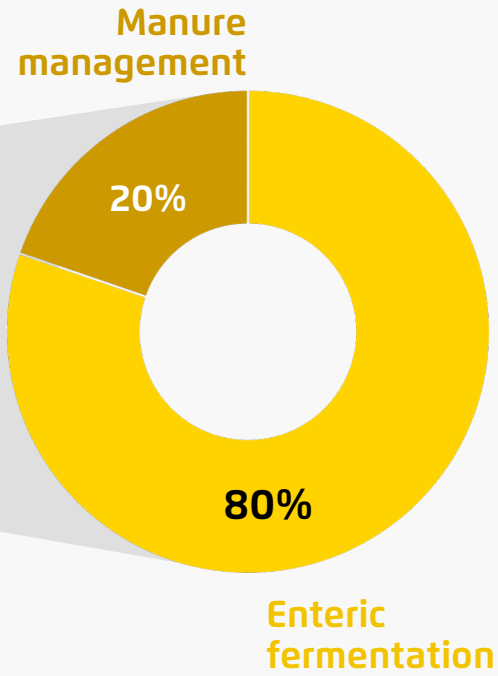


Methane emissions from livestock represent **62 %** of all agricultural emissions

Greenhouse gas emissions from EU agriculture



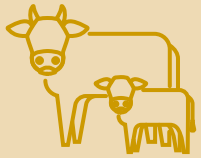
Methane emissions from livestock



Enteric fermentation · Manure management: Methane · Manure management: Other · Soils · Other

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Analysed mitigation measures

Feed additives	 **3-NOP**	 **Increased fat feeding**			
Manure management	 **Anaerobic digestion**	 **Calcium cyanamide**	 **Manure acidification**	 **Construction measures**	
Others	 **Breeding**	 **Herd management**			

Focus of the presentation: Preliminary results

Additionally covered in the final study

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Mitigation technologies with a high technical mitigation potential

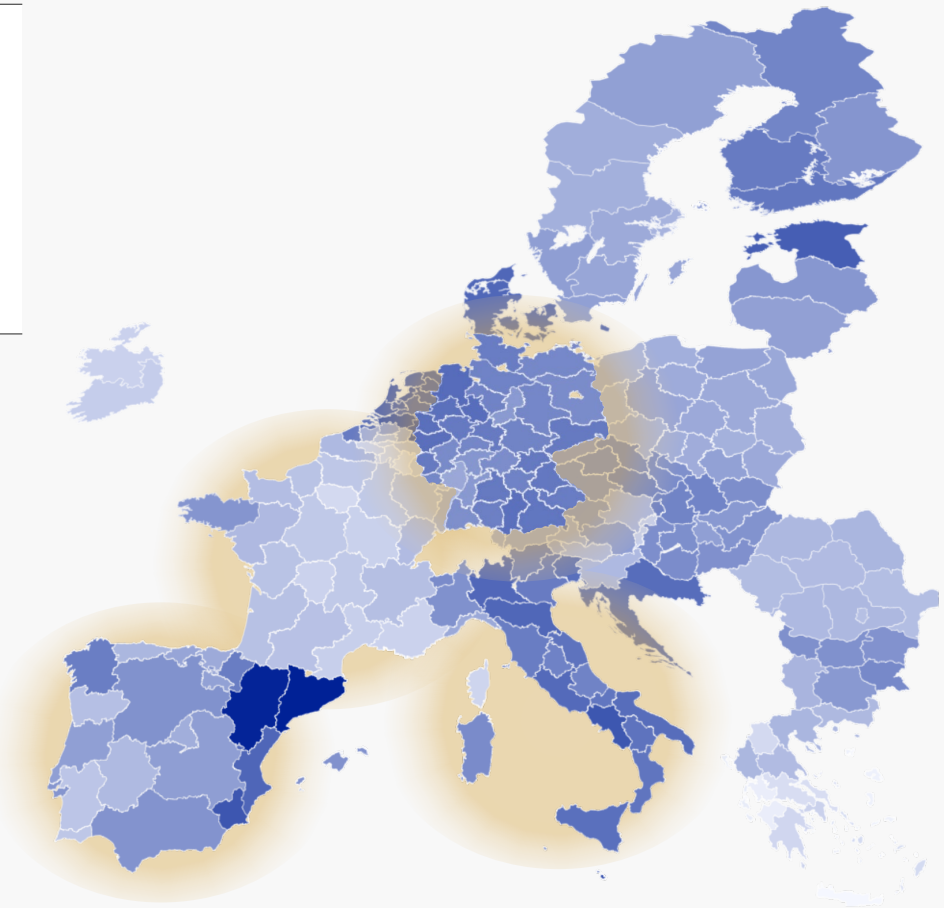
	3-NOP	Calcium cyanamide	Anaerobic digestion
Mitigation potential	up to 30% of CH4 from enteric fermentation	~80% of CH4 from liquid manure	~75% of CH4 from liquid manure
Operational costs	80-100€ / cow / year	50 € / cow / year	

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Relative reduction of methane emissions due to livestock mitigation measures (2035)

Low adoption rates in France
- Many suckler cows
- Prevalence of grassland systems
- Exception: Large animal numbers in Brittany

High reduction potential in the North-East of Spain
- High uptake of manure mitigations
- Concentration of pig production



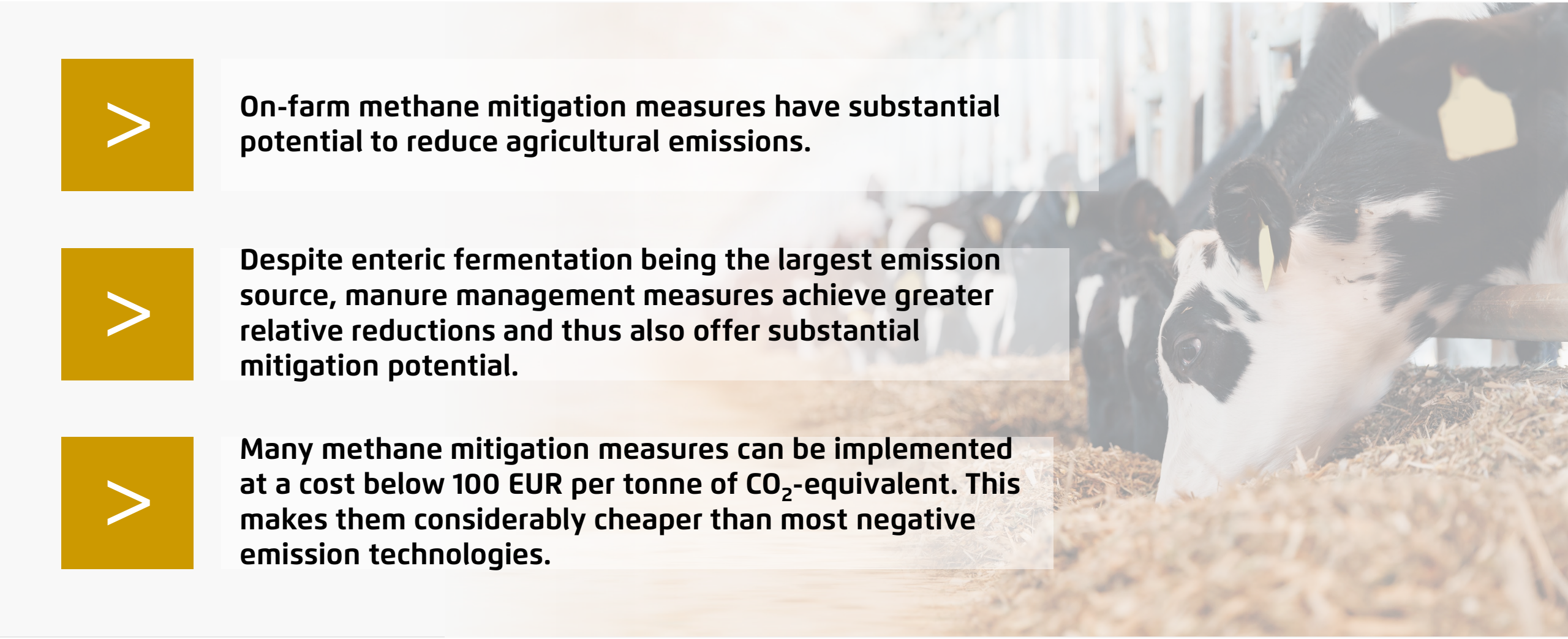
High adoption rates in Germany
- Many ruminants: high uptake of feed additive
- Indoor housing prevalent (pig production): high uptake of manure additives

High adoption rates in Italy
- Many ruminants
- Indoor housing prevalent

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Key takeaways

- On-farm methane mitigation measures have substantial potential to reduce agricultural emissions.
- Despite enteric fermentation being the largest emission source, manure management measures achieve greater relative reductions and thus also offer substantial mitigation potential.
- Many methane mitigation measures can be implemented at a cost below 100 EUR per tonne of CO_2-equivalent. This makes them considerably cheaper than most negative emission technologies.



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Thank you!

Do you have questions or remarks?

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