

Common Reed for Thatching in Northern Germany

Sabine Wichmann, Lea Becker, Volker Beckmann



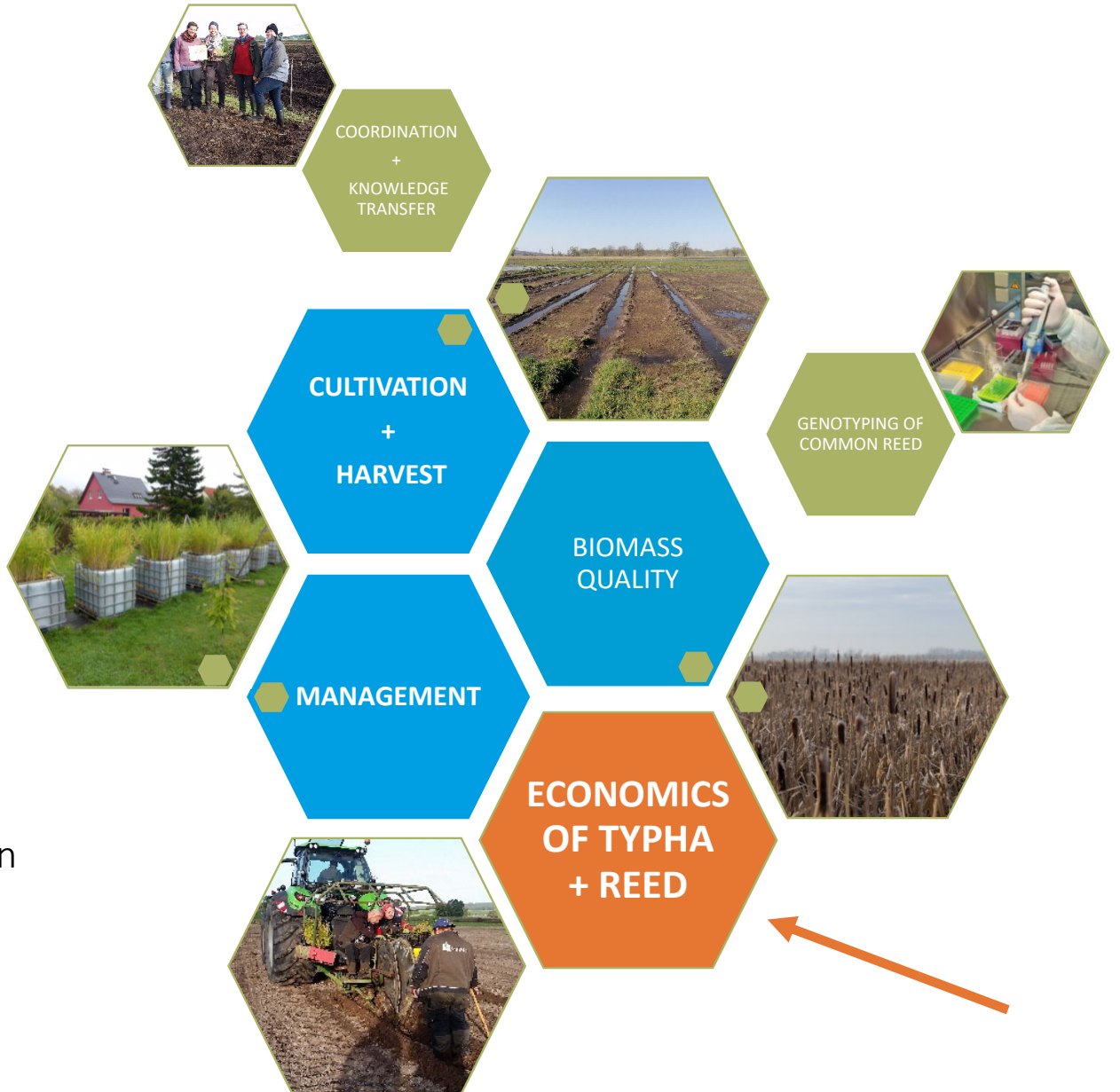
Paludi-PRIMA project

PALUDI CULTURE



Paludi-PRIMA

Putting paludiculture into practice:
Integration – Management - Cultivation



Common reed for thatching

- Long tradition (since 4000 BC)
- Locally available roofing material

→ landscape-defining + modern applications

→ internationally traded commodity



Reconstructed Viking settlement (Museum Haithabu, D)



Reed thatched roof + walls (©Wadden Sea Centre, Ribe, DK)

European market of thatching reed

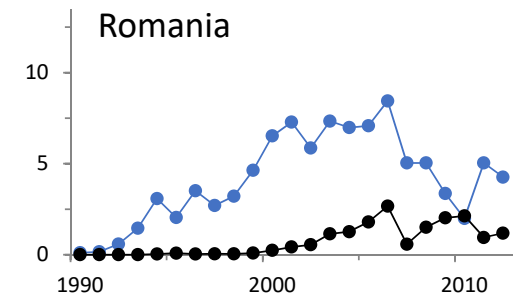
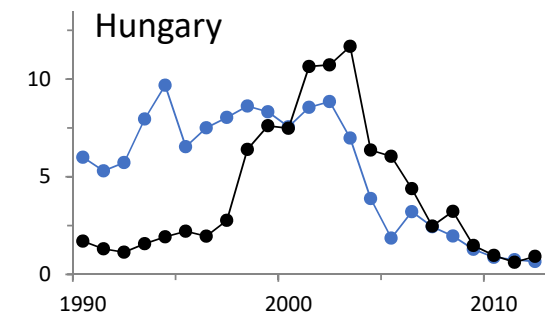
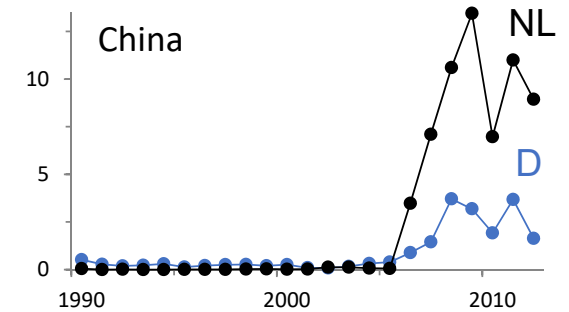
Demand in EU: ca. 15 Mio bundles / year

NL, D, UK, DK → Import rate ca. 70-85%



Exports: 1990 – 2012

Amount of reed / 10⁶ kg



Reed value chain and main actors

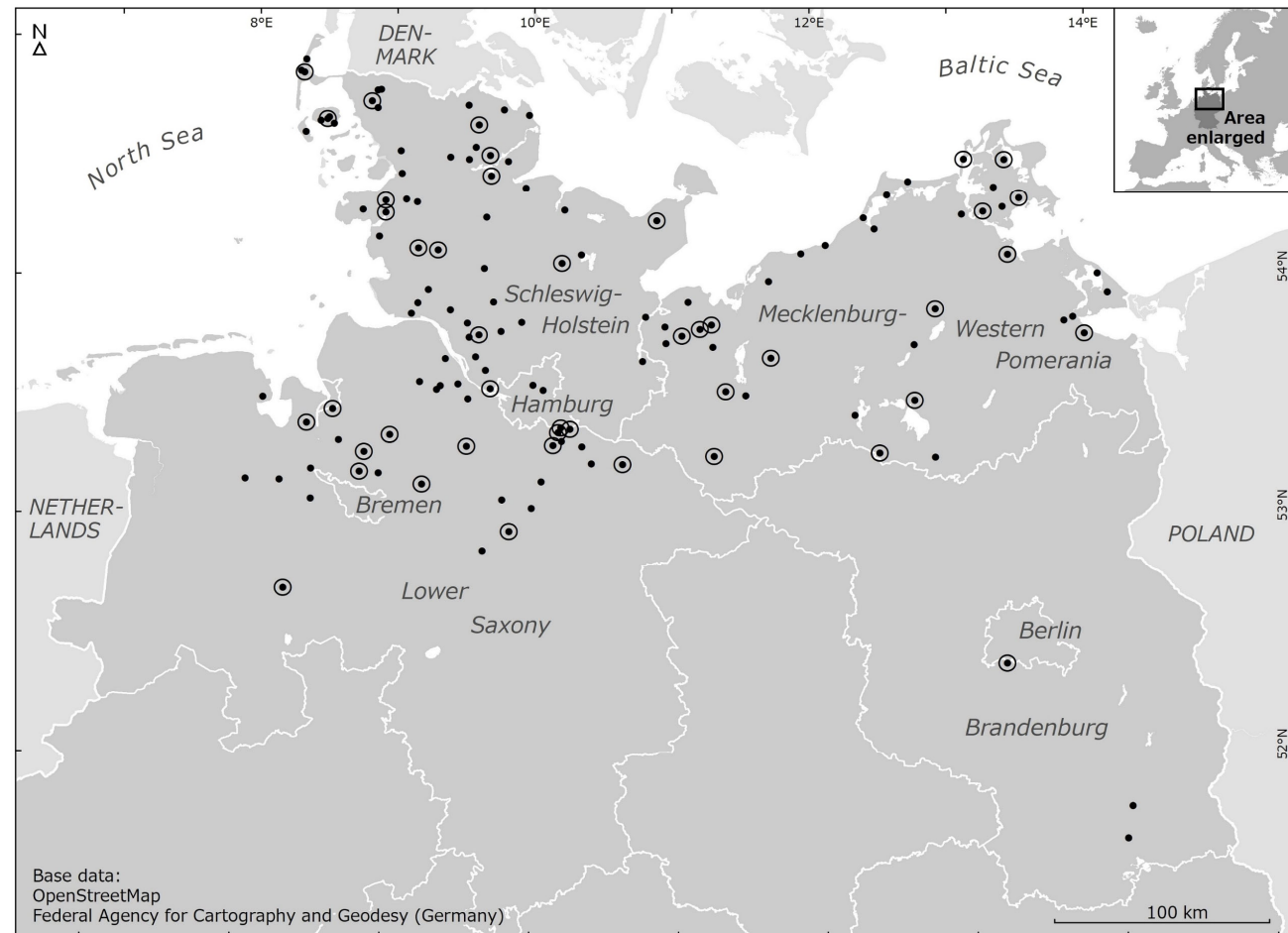


Thatching companies

Link between the raw material and the demand for thatched houses

Survey among German thatchers

- Written survey in 2019
 - Northern Germany:
N= 141 companies
 - Response rate: 33 %
- first in-depth analysis of
thatching reed market



Responding thatching companies

- SME - Small and medium scale enterprises: self-employment to 28 full-time employees
- 62% specialized on thatching
- < 9% harvesting own reed
- 26% had given up reed cutting



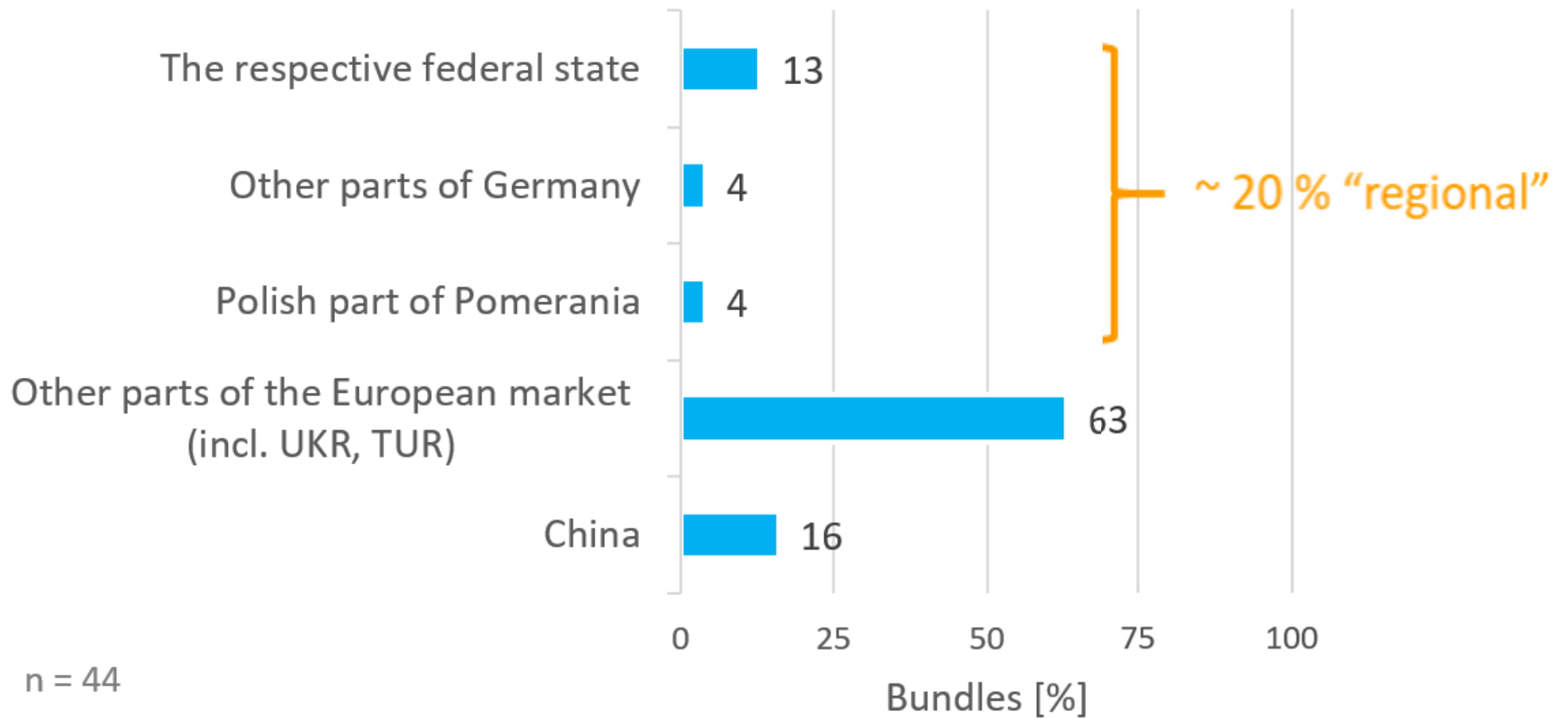
Reed bundles used per company

- 2018: ~ 21,500 bundles per company
(200-80,000 bundles)
- Utilisation of reed:

Rethatching roofs completely	59 %
Newly constructed roofs	24 %
Roof repairs	17 %

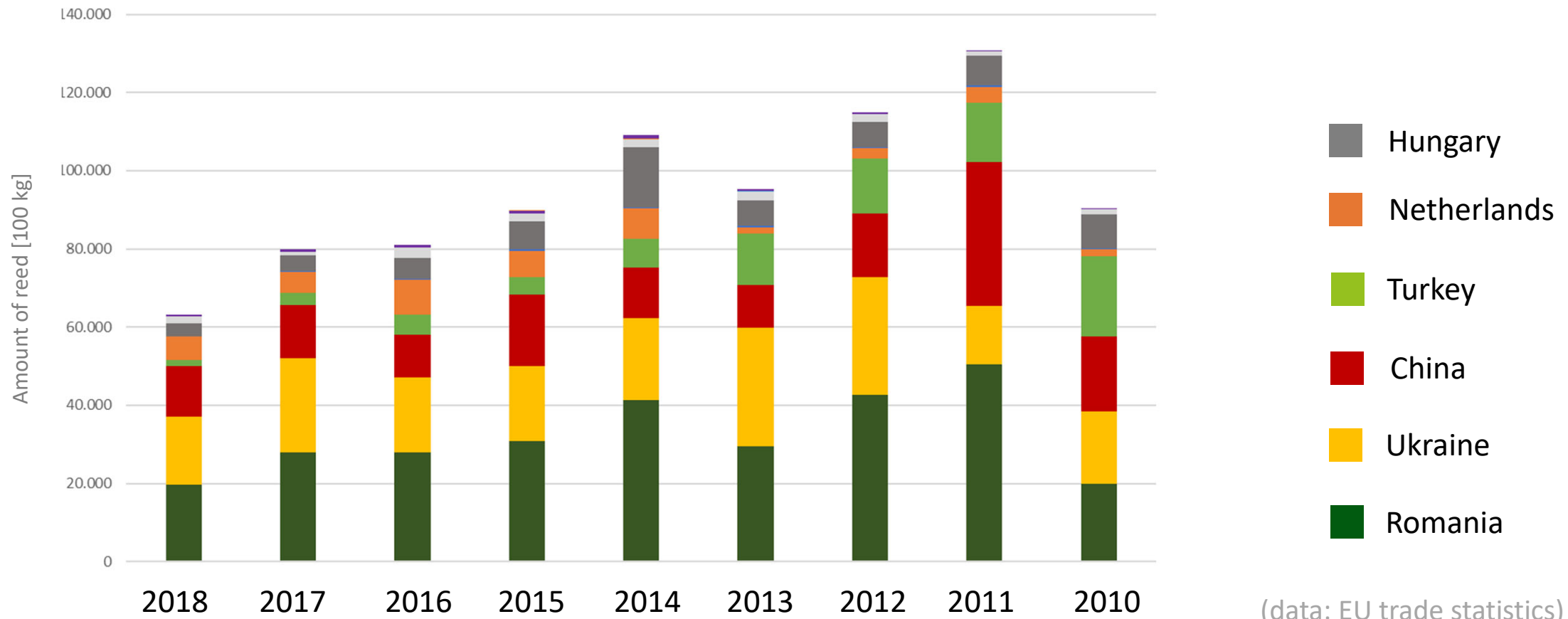


Origin of reed used in 2018



Reed imports to Germany

Total amount + share of partner countries varies



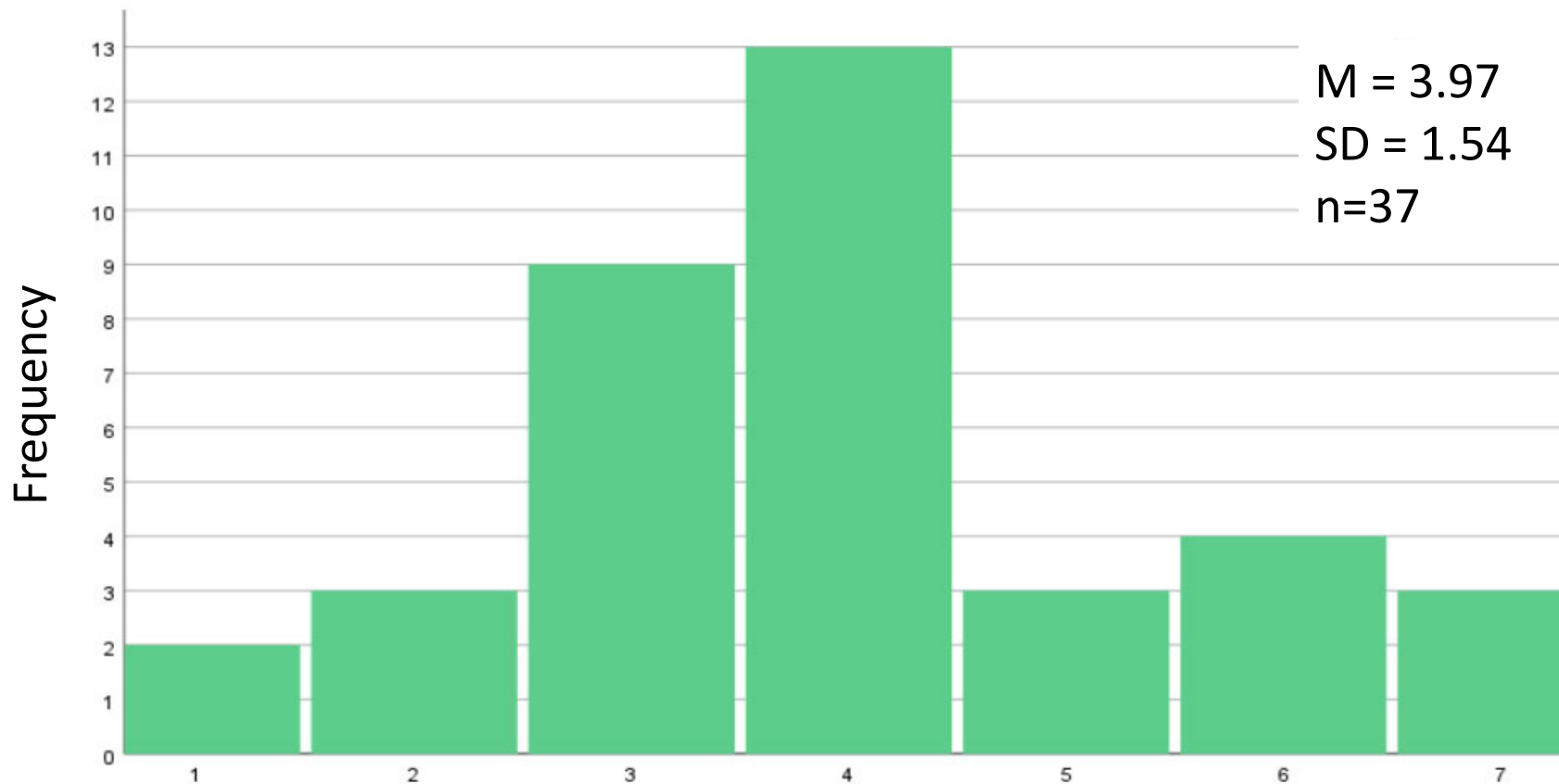
(data: EU trade statistics)

Criteria when purchasing reed for thatching

Criteria	Frequency	Percent
Quality	46	100.0
Cleanliness	42	91.3
Culm length	40	87.0
Breaking strength	32	69.6
Culm wall thickness	26	56.5
Origin	25	54.3
Price	15	32.6
Storage and transportation	27	29.6
Color	9	19.6

n = 46

Quality assessment of regional reed compared to other sources



1 = "much worse" to 7 = "much better"

Regional reed: demand and promotion

1) Demand by Customers

Ø 34 % asked for reed of regional origin on their own (0 - 100%)

2) Promotion by thatchers

YES – only 30 % promoted regional reed

NO – reasons: insufficient supply (50%)

poor quality of reed (31%) → e.g. “too short” and/or “too soft” reed

3) Willingness to offer more regional reed

69 % (so far no promotion) and 86 % (already promoting)

Extrapolation: reed market in Northern Germany (2018)

		Total market	Regional reed	Supply gap of regional reed
Volume	Million bundles	3 ± 0.8	0.5 ± 1.4	0.5 ± 0.4
Value	Million €	11.6 ± 2.8	1.8 ± 0.5	1.9 ± 1.4

+/- indicates the sampling error for a 95% confidence interval



Area demand

- For supply gap: 1.046 ± 784 ha
- For total market volume: $\sim 6.000 \pm 1.600$ ha

→ max. 10,000 ha

> 1 Mio ha drained → other options of reed utilisation + further paludicultural crops



Potential for paludiculture

PALUDI
CULTURE



Paludi-PRIMA

- Current reed **harvesting area is limited**
“not available”, “too small”, “very restricted use”, “nature conservation”
- **Cultivating reed**: improve quantity and quality of regional reed for thatching
- **Research demand**: How to achieve and improve thatching qualities of reed?

→ Session 4.2a: Genetics of Reed (Kristina Kuprina + Anna Rudyk)



resources



CITESCORE
3.5
SCOPUS



Common Reed for Thatching in Northern Germany: Estimating the Market Potential of Reed of Regional Origin

Volume 9 · Issue 12 | December 2020



mdpi.com/journal/resources
ISSN 2079-9276



GREIFSWALD
MIRE
CENTRE

For further reading 😊

wichmann@uni-greifswald.de