

European production, trade and consumption of wood pellets – first results from the Pellets-@las project

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- **Main objective**

Development and promotion of transparent market structures for trade facilitation

- **Work description**

European data collection from pellet producers, traders and consumers on prices, quantities and qualities

- **Geographical coverage**

EU 27 + 2 (CH, NO)

- **Project Duration**

Jan 2007 – Dec 2009



Consortium



12 contract partners

+ subcontractors:

- SVEBIO, Sweden
- CARMEN, Germany
- proPellets, Austria



Target groups and background



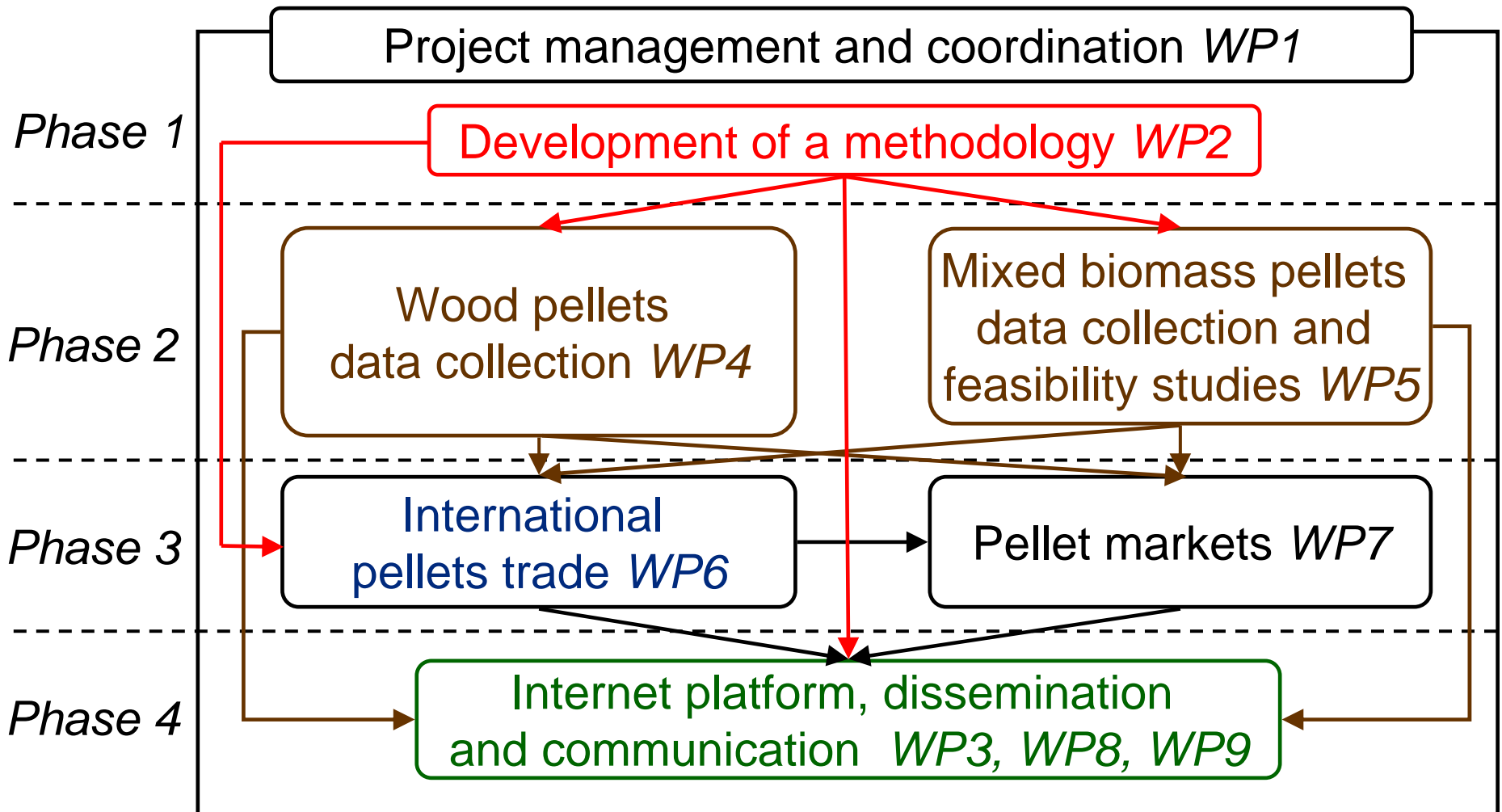
Target Groups: All pellet actors, mainly:

- Pellet producers
- Pellet traders
- Pellet consumers

Barriers for pellet market developments

- Information gaps
- Supply bottlenecks
- Uncertainties in quality assurance management
- ⇒ Lack of market confidence

Project structure



Major Activities and Outcomes

- A web-based information platform on important fuel pellet market data
- Recording and evaluation of the acceptance and implementation of CEN quality standards
- Pre-feasibility studies for mixed biomass pellet (MBP) utilisation in PL, SK, GR, DE
- A handbook in five European languages
- 5 workshops

Methodology - Data collection



National questionnaires to producers, traders and large scale consumers

- Volumes (annually)
 - Production
 - Production capacity
 - Trade and sale
 - Consumption
- Consumer Prices (month, quart)
 - Household (loose, 5 tons)
 - Household (bags)
 - CIF(ARA), >5000 tonnes
- Wood pellets (industrial/non industrial)
- Mixed biomass pellets
- Used Quality standards (CEN etc..)

Website



www.pelletsatlas.info

The former
www.pelletcentre.info



The Pellets@las webpage



Startside - www.pelletsatlas.info

pellets@las pellets@las.info

- News
- About
- Full access ?
- Project Results
- Database Market Actors
- Hotline
- Links
- Events

Pellet Production plant

Map controls: Karte, Satellit, Hybrid

Map labels: Iceland, Sverige, Suomi Finland, Norge, Danmark, Belgien, Polen, Litauen, Letland, Estland, Ungarn, Slowakei, Österreich, Schweiz, Italien, Spanien, Portugal, Irland, Griechenland, Türkei, Belarus, Ukraina

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-- Europe -- [Reset] [Get Full Access To Prices]

You have LIMITED access to price data

Graph Data
Select Data

Production plant map

Country volumes & consumer prices

Most recent prices protected (2 month)

Incentive for full access:

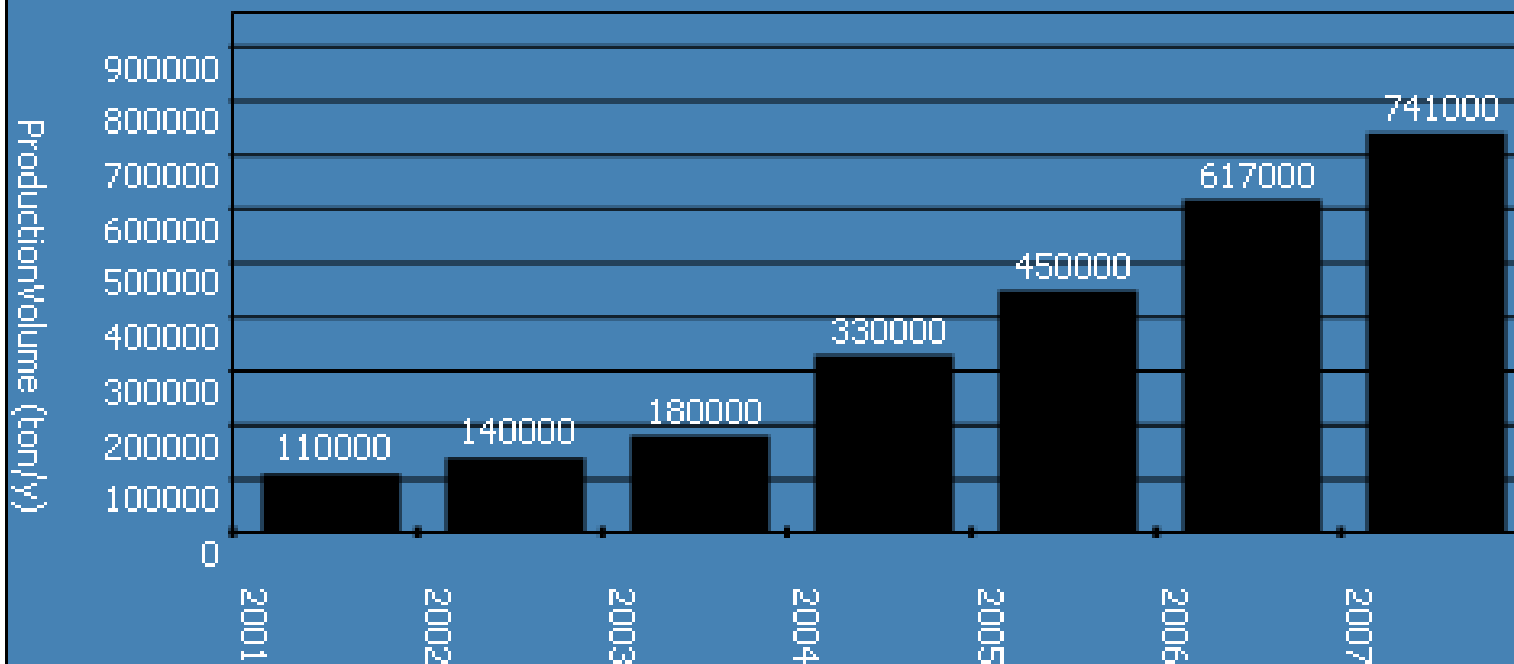
Participate in survey!



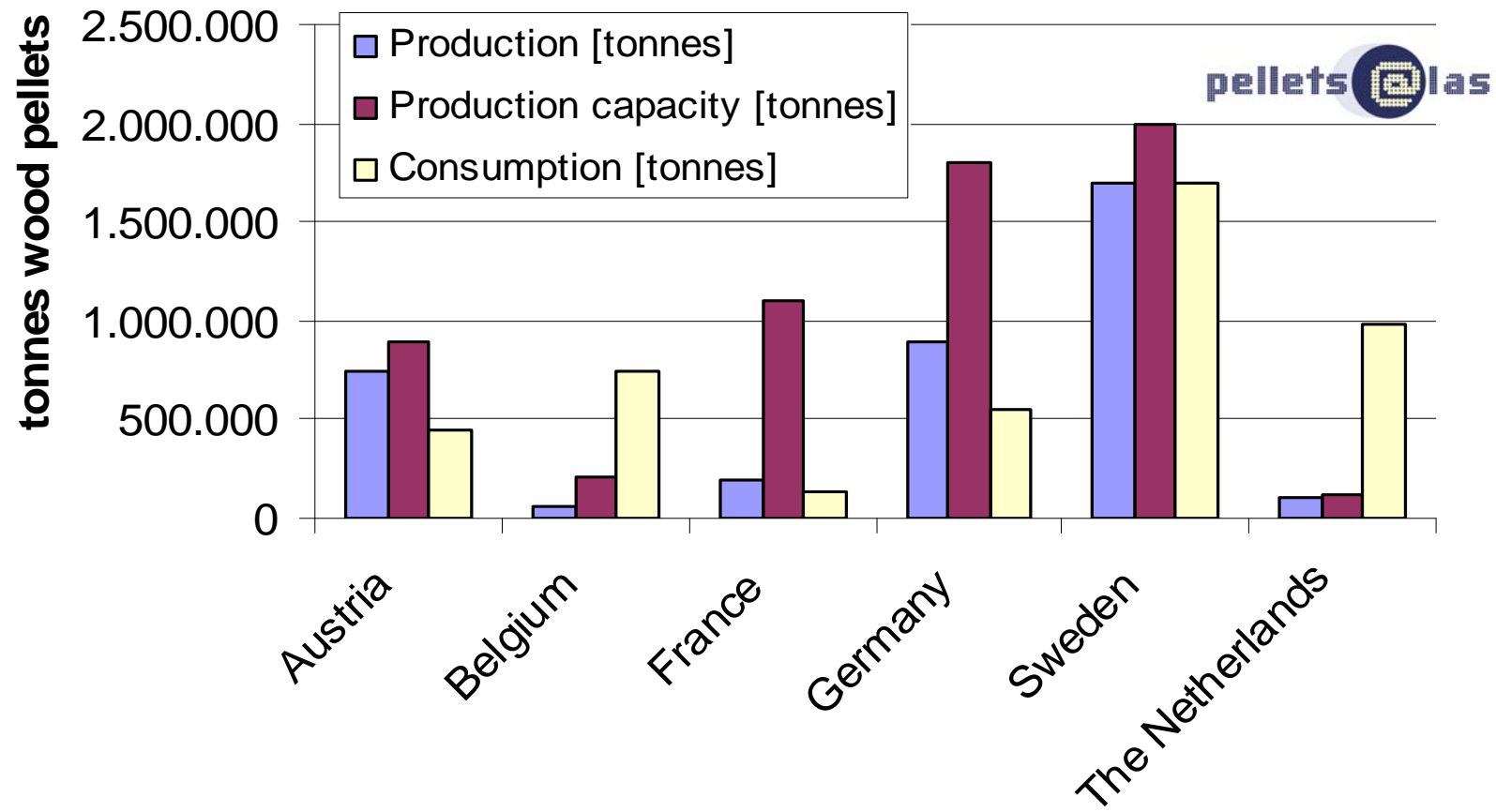
Example output: country prod. volumes



Austria -- Production



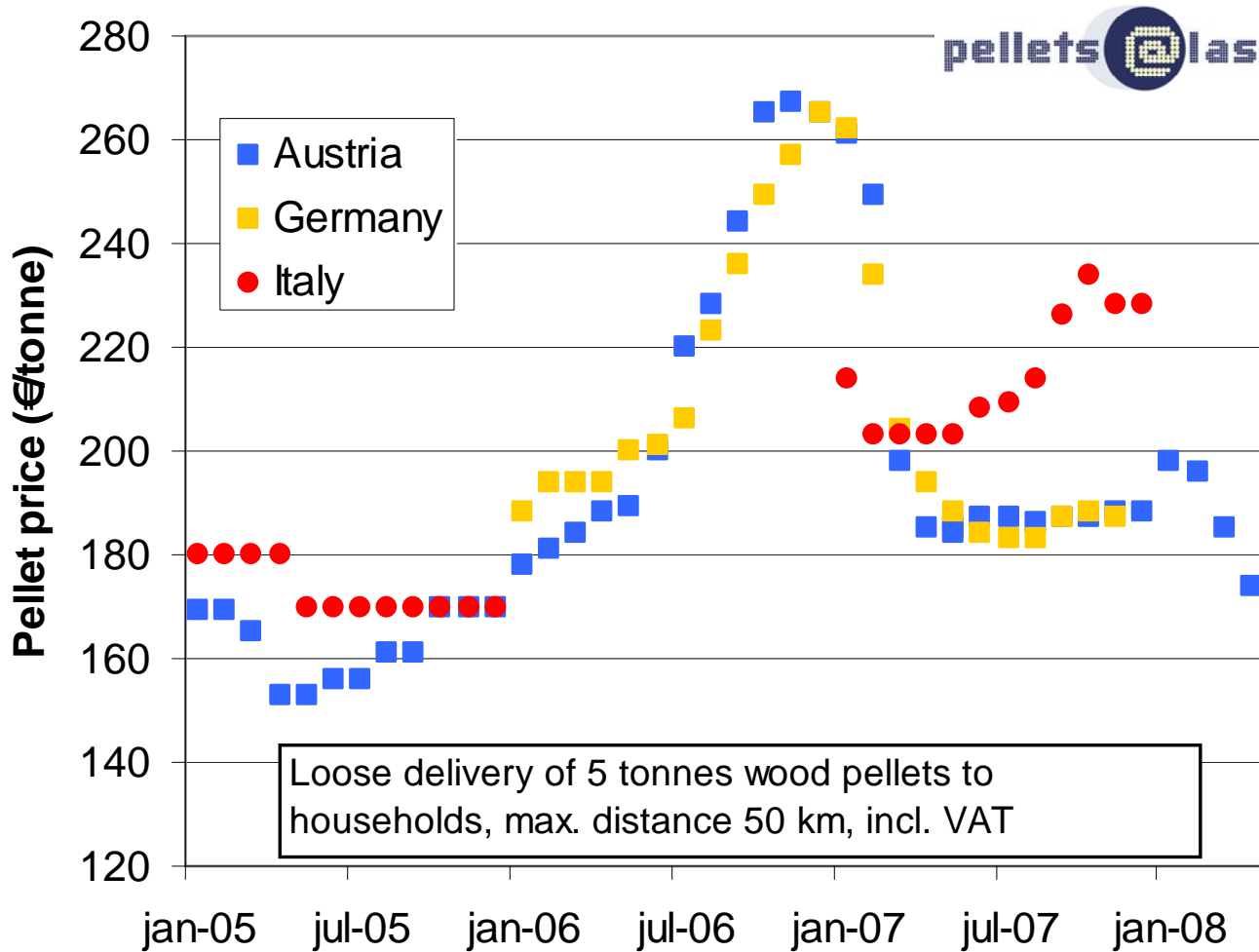
Developed wood pellet markets in Europe 2007



EU 27+2: - consumption ~6 mill tonnes
- production ~ 5 mill tonnes
- production cap. ~9 mill tonnes

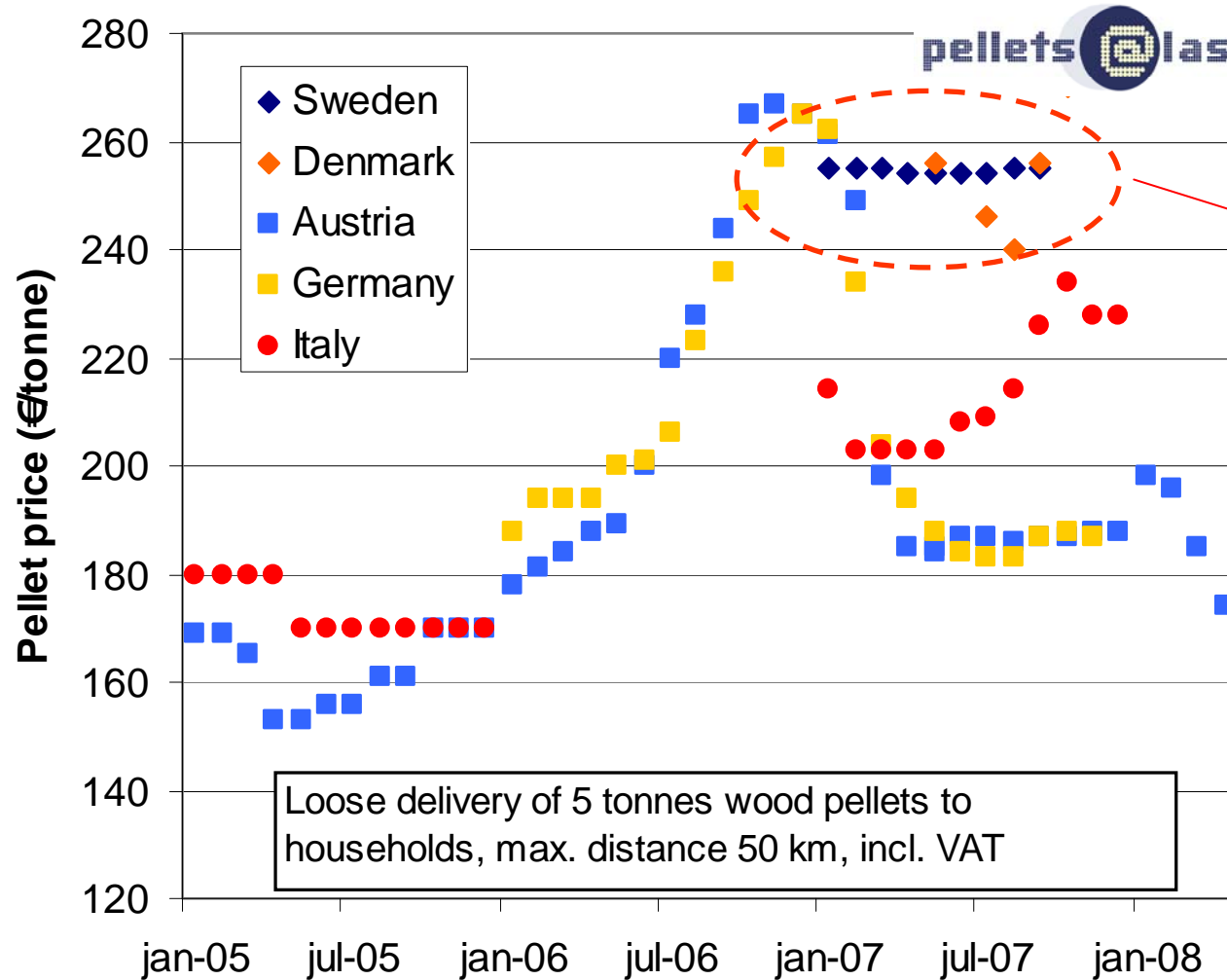


Wood pellet prices in Europe (1)



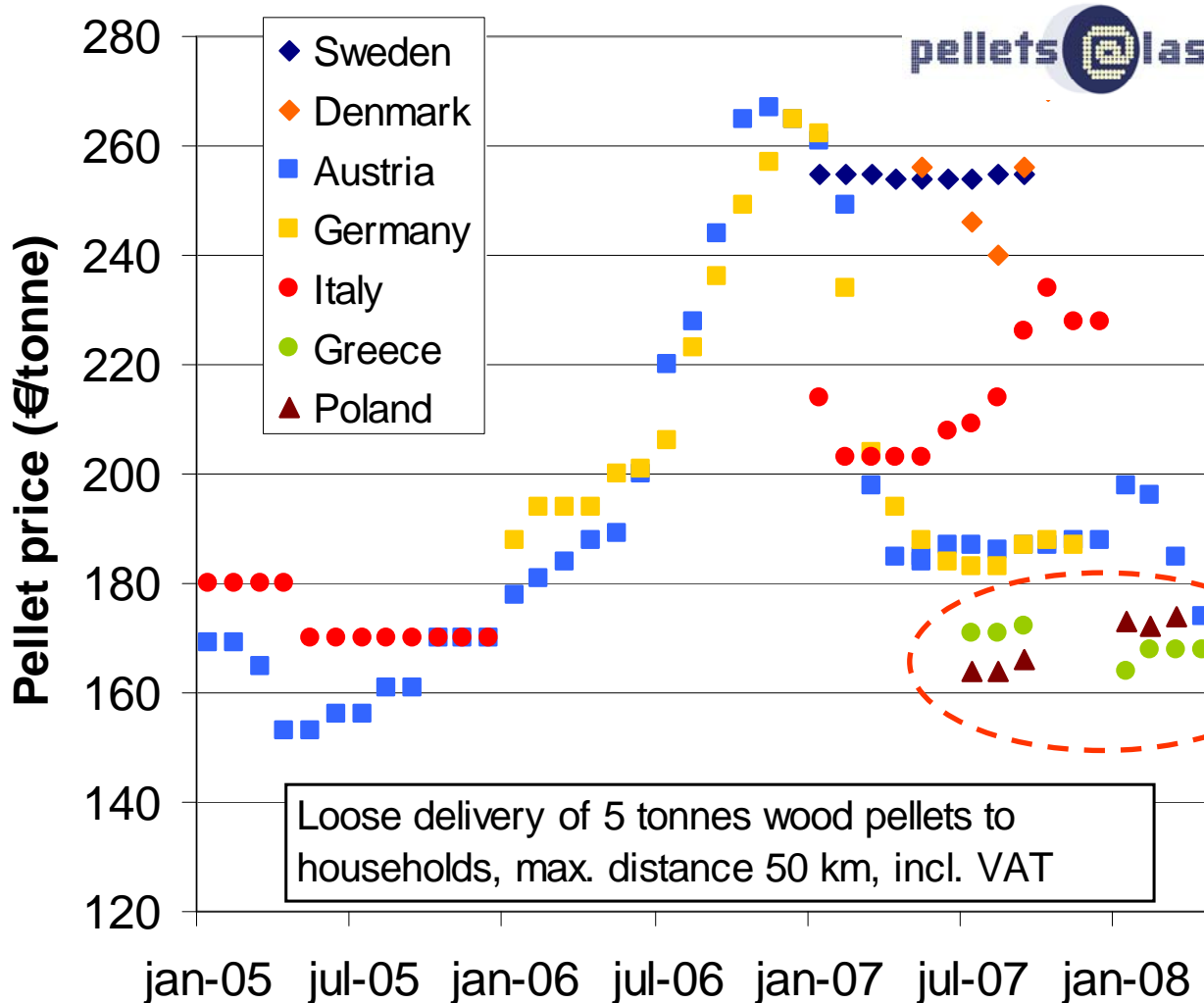
Strong Wood pellet demand in Italy affected Austrian & German markets in winter 06/07 (but not in 07/08)

Wood pellet prices in Europe (2)



Scandinavian prices remained unaffected at high levels...

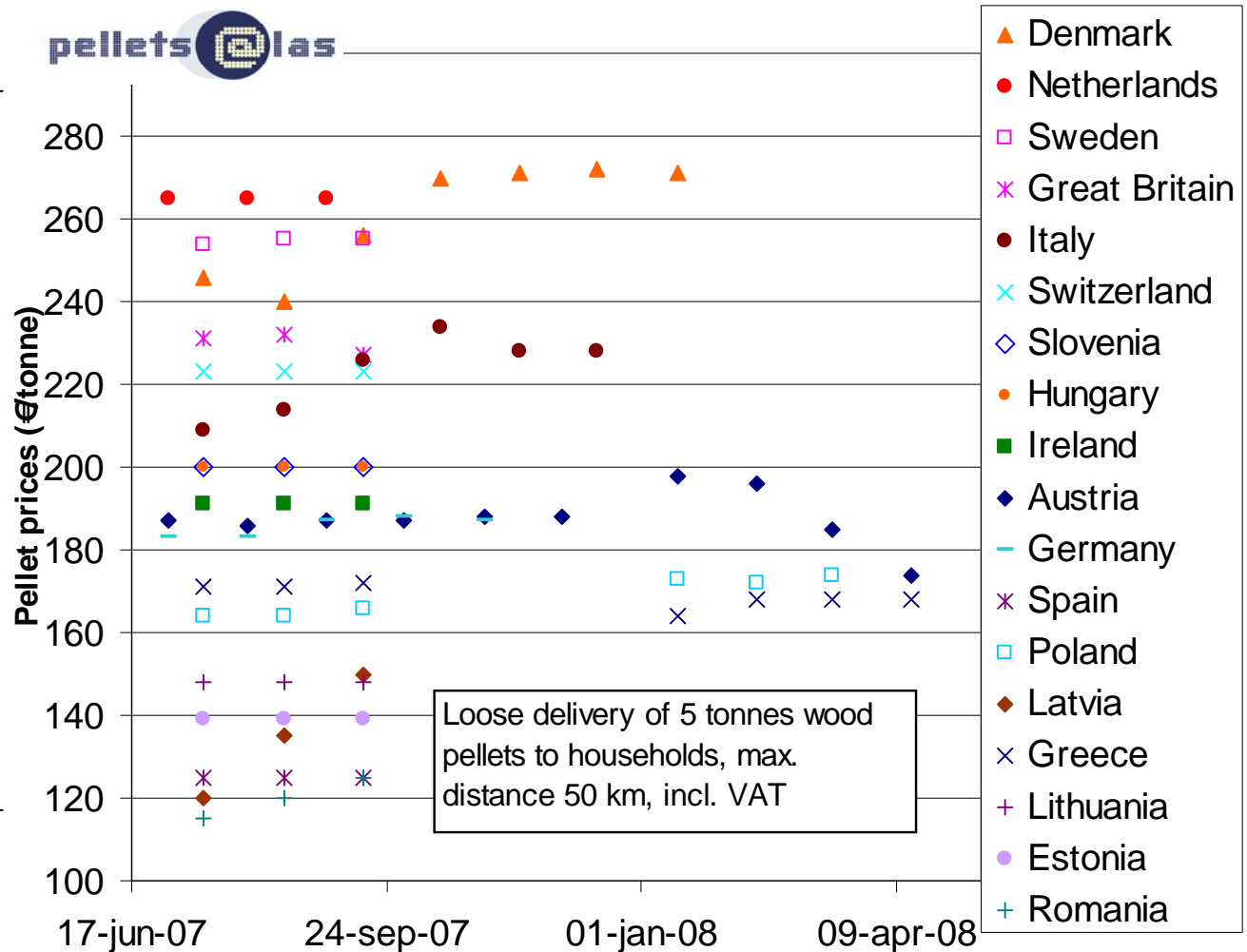
Wood pellet prices in Europe (2)



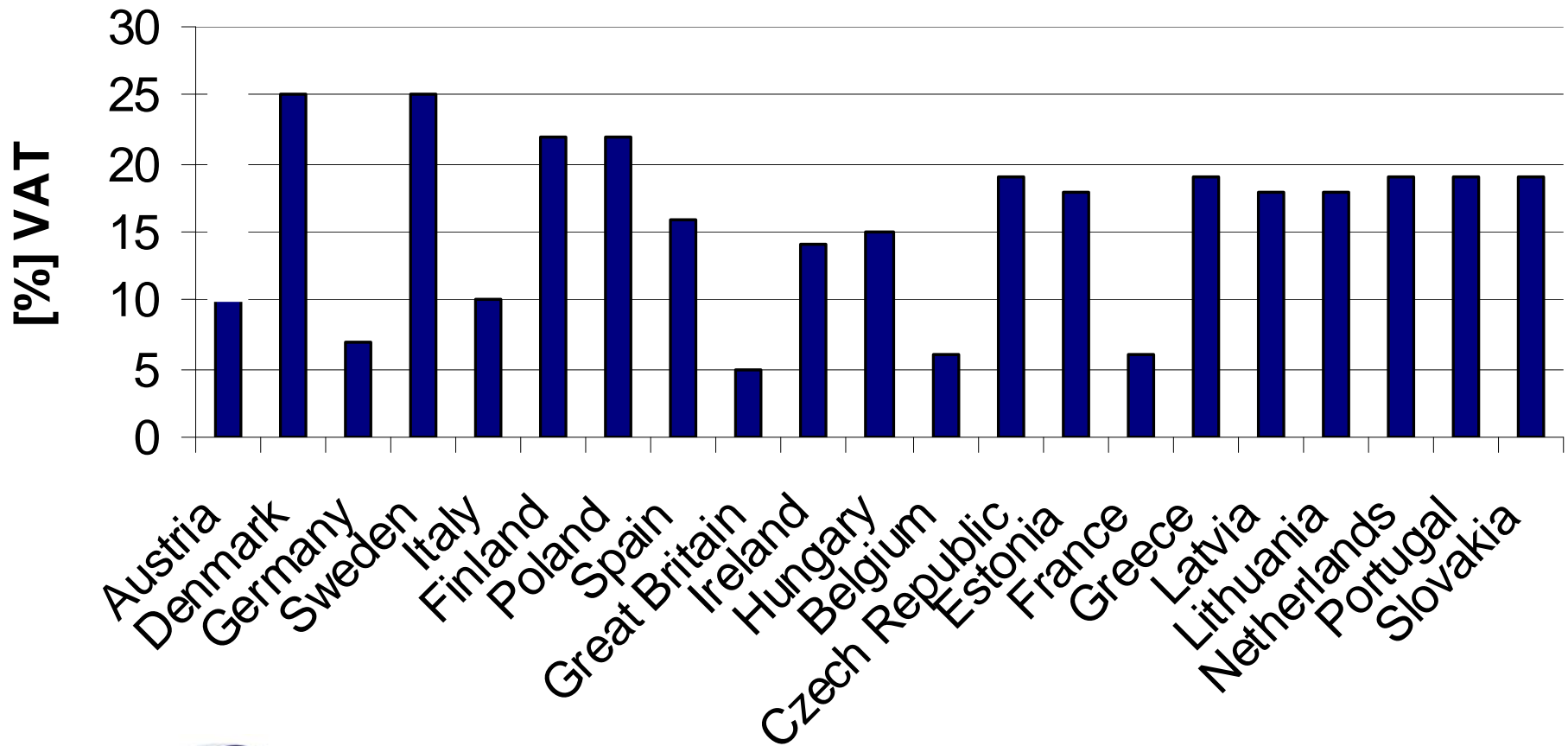
... while southern / eastern producing countries show low price levels

Overall European comparison

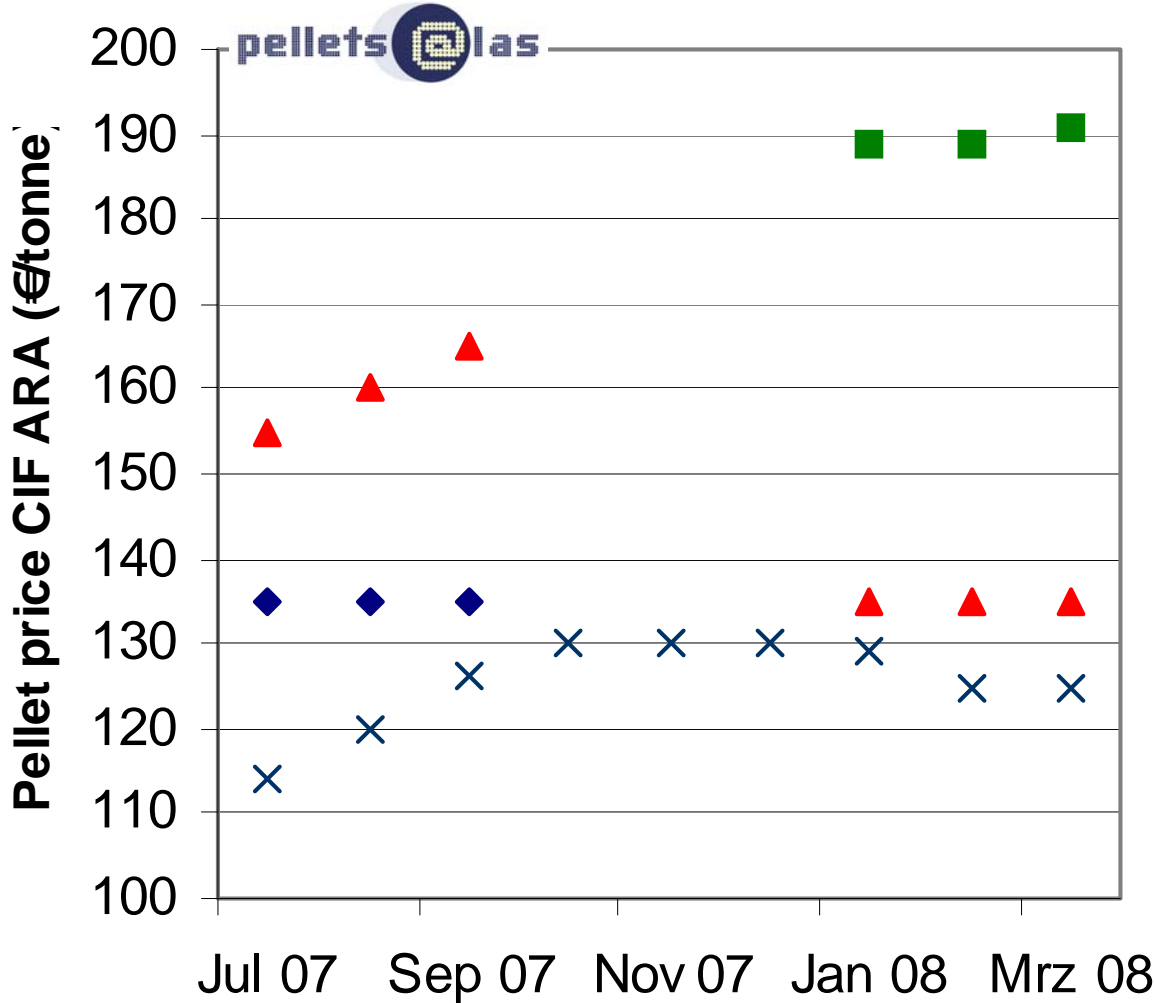
> **Factor of 2**
price
difference
between
some north-
western and
south-
eastern
countries



Different VAT in Europe



Rotterdam Harbour prices wood pellets



CIF ARA spot prices (excl.VAT) for bulk delivery of 5000 tonnes wood pellets by oceanship, prices according to pellet actors from:

- ◆ Latvia
- Greece
- ▲ Great Britain
- × Netherlands



- Small starting markets in:
Poland, Czechia, UK, The Netherlands,
Greece, France, Germany
- Production capacity all <10.000 tonnes / year
- Main raw material: straw

The market for MBP is small but developing

- Factors that hamper the market:
legal aspects and technical aspects for the heating-systems like the emissions NO_x , dust or aspects of the combustion efficiency, the corrosion, the ash melting points etc.
- Development of logistic systems for the production of agro-pellets is necessary too.

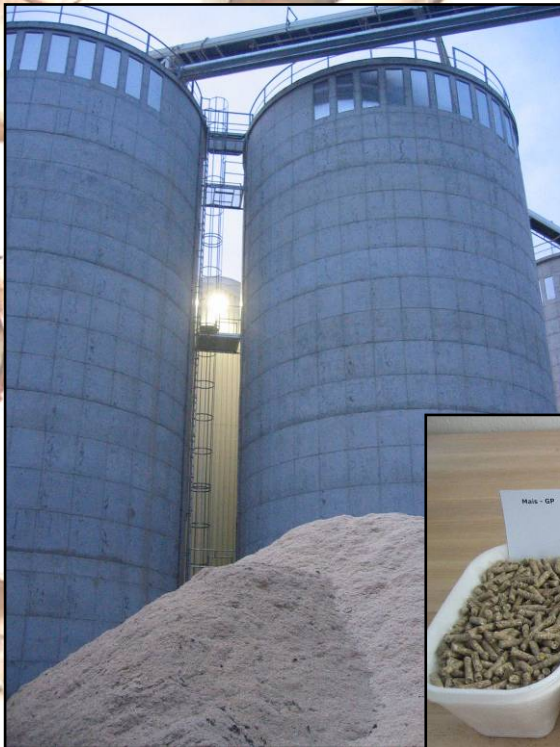
- Data quality from survey differs between well-developed and developing markets
- Especially large-scale industrial pellet prices are hard to determine
- Difference in EU price levels illustrate non-transparency of markets and importance of pellet logistics

Conclusions



- Pellet markets differ from country to country
- Pellet prices for end-consumers can vary over a factor of 2 in different European countries
- Pellet trade flows are not transparent
- With the public dissemination of wood pellet production, consumption and especially price data, we expect that this situation will improve greatly

Thank you for your attention!



Intelligent Energy  Europe