

LATEST DEVELOPMENTS ON CZECH INDUSTRIAL HEMP MARKET

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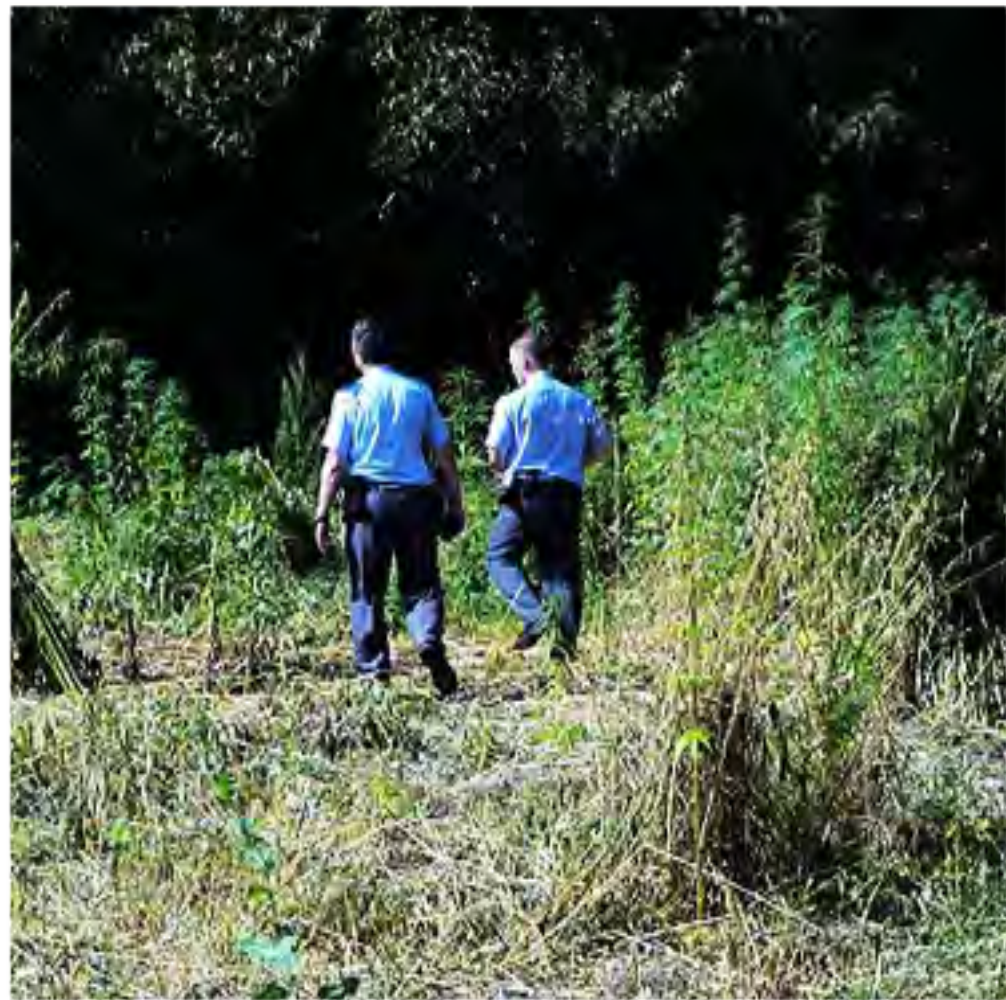
EIHA conference, 20th May 2015, Cologne



HEMP HISTORY

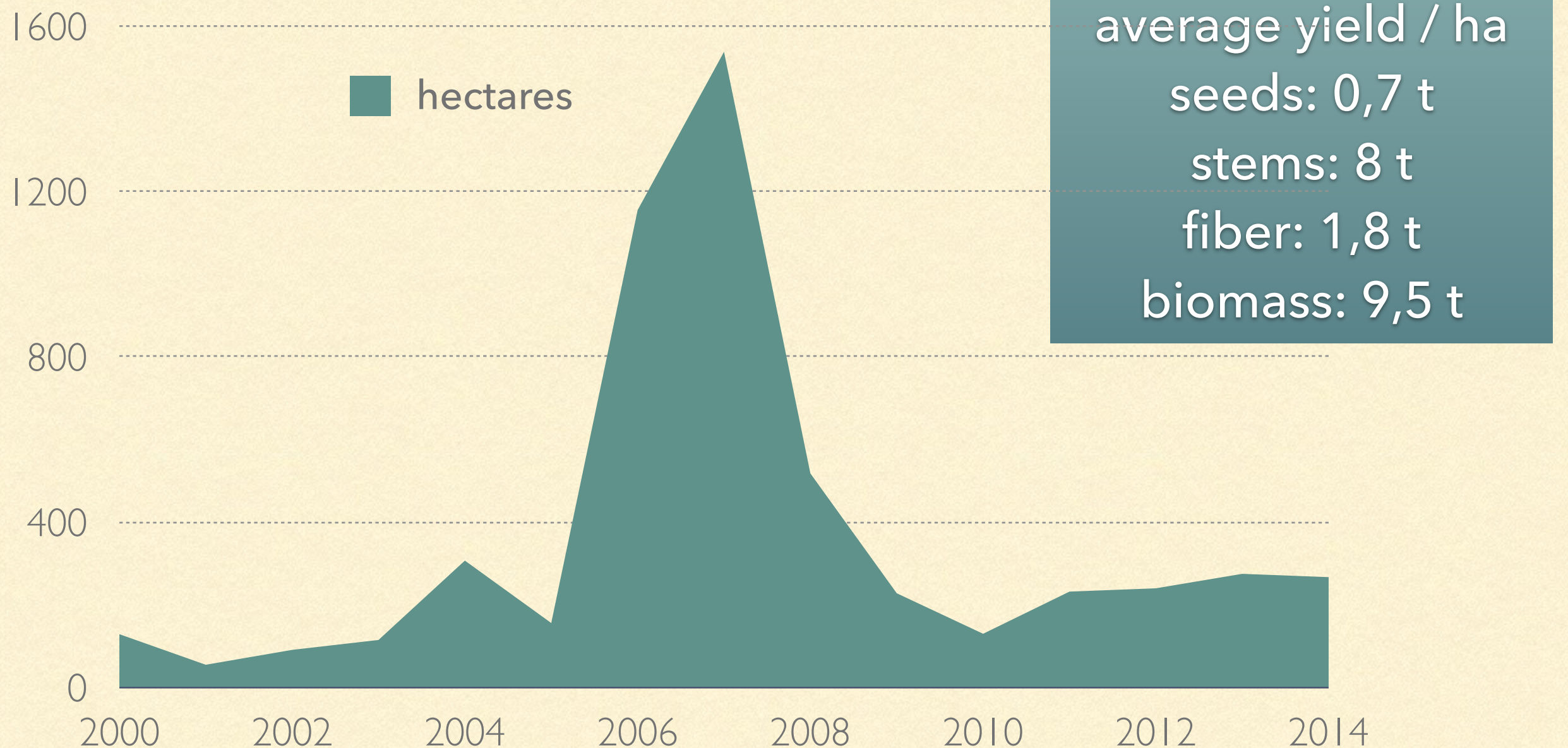
- Archeological discoveries - Pavlov 20,000 years b.c. - design on ceramic made by hemp rope
 - Traditional folklore "Konopická celebration"
 - *Cannabis* research at Palacky University in Olomouc
 - International conference "Hemp is a medicine" in 1954
 - Czech variety "Rastislavské"
 - Agritec research from 1996 on new EU varieties / methods of Czech growing
 - Strong tradition in textile industry - around 2006 decrease of flax production
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LEGISLATION

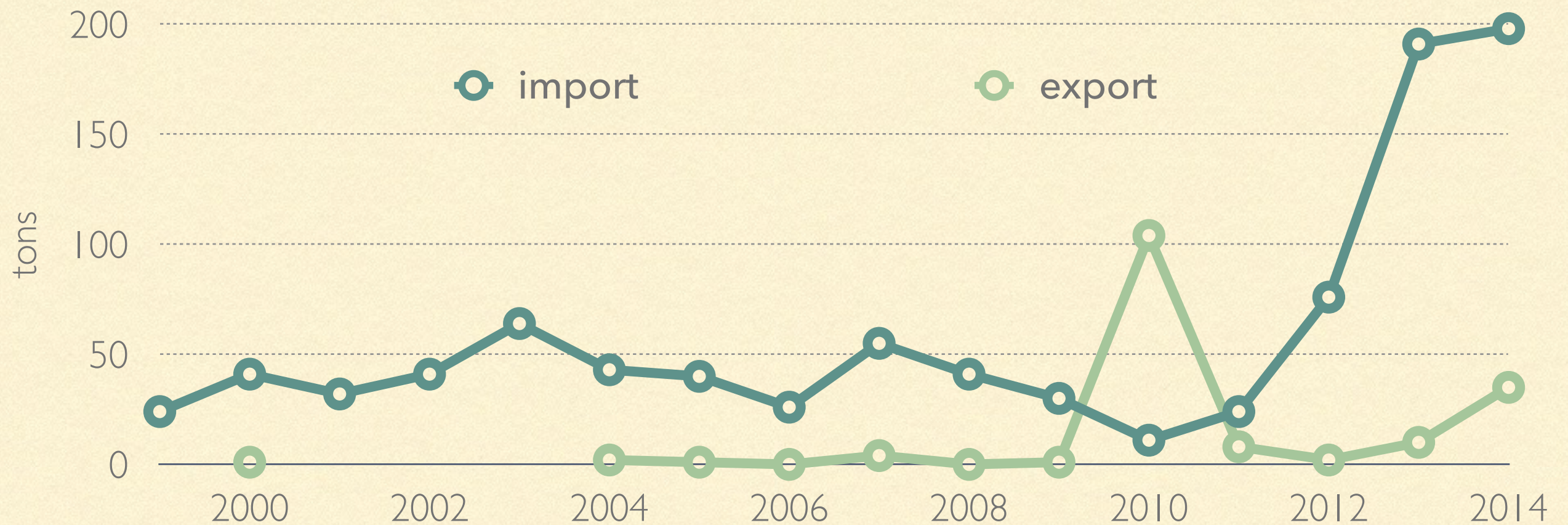


- The Act No. 167/1998 psychotic substances
 - Reporting obligation above 100 m² area
 - Limit for THC 0,3 %, CBD legal status
 - Extractions with special permission (from 2014)
 - No THC limits for food products (some tolerated)
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HEMP FIELD AREAS IN CR 2000 - 2014



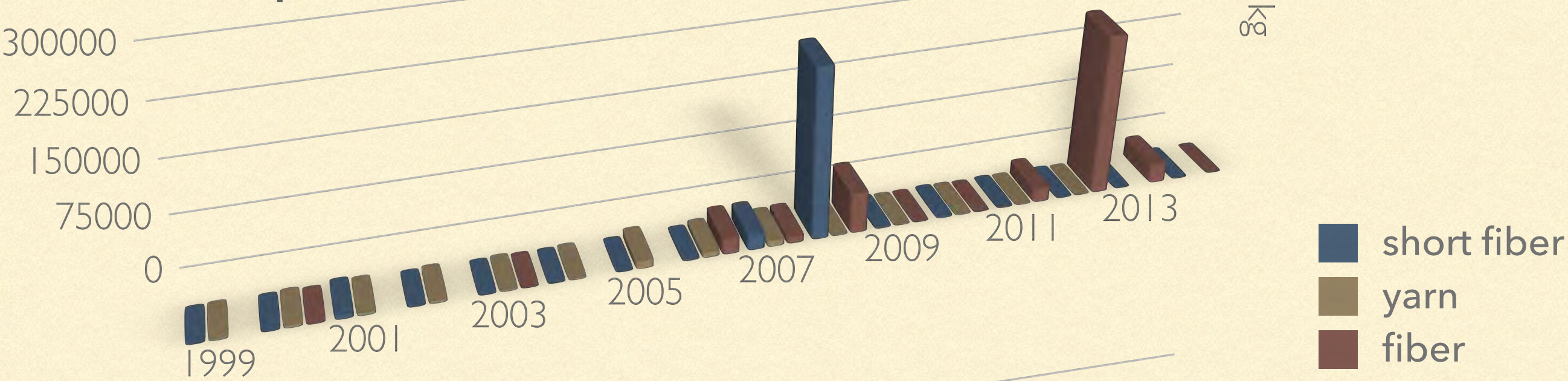
HEMP SEEDS TRADE



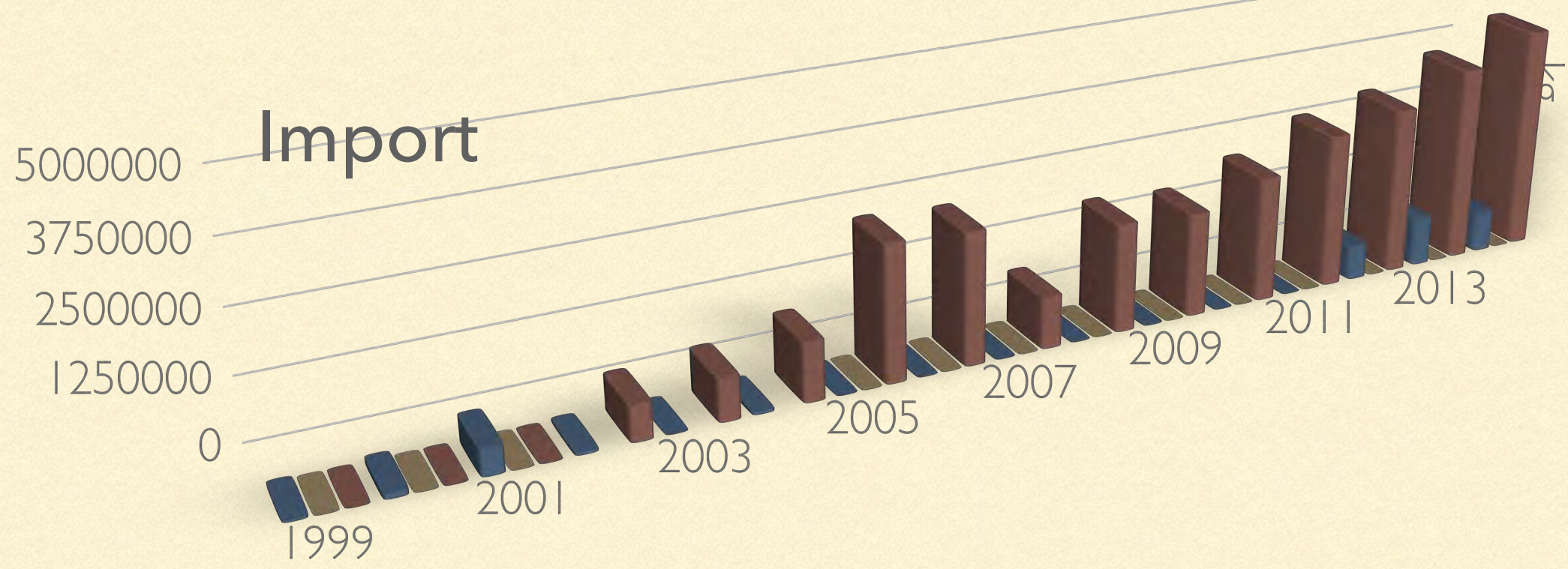
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
import	24	41	32	41	64	43	40	26	55	41	30	11	24	76	191	198
export		1				2	1	0	4	0	1	104	8	2	10	35

HEMP FIBER TRADE

Export



Import



HEMP SEEDS HARVEST

- DEUTZ FAHR 4080 HTS harvester owned by co. Hemp Production
- Harvester rent from Hanfland (AT / based on agreement)
- Harvester Fortschritt E 512 (Made in Easten Germany before 1988)



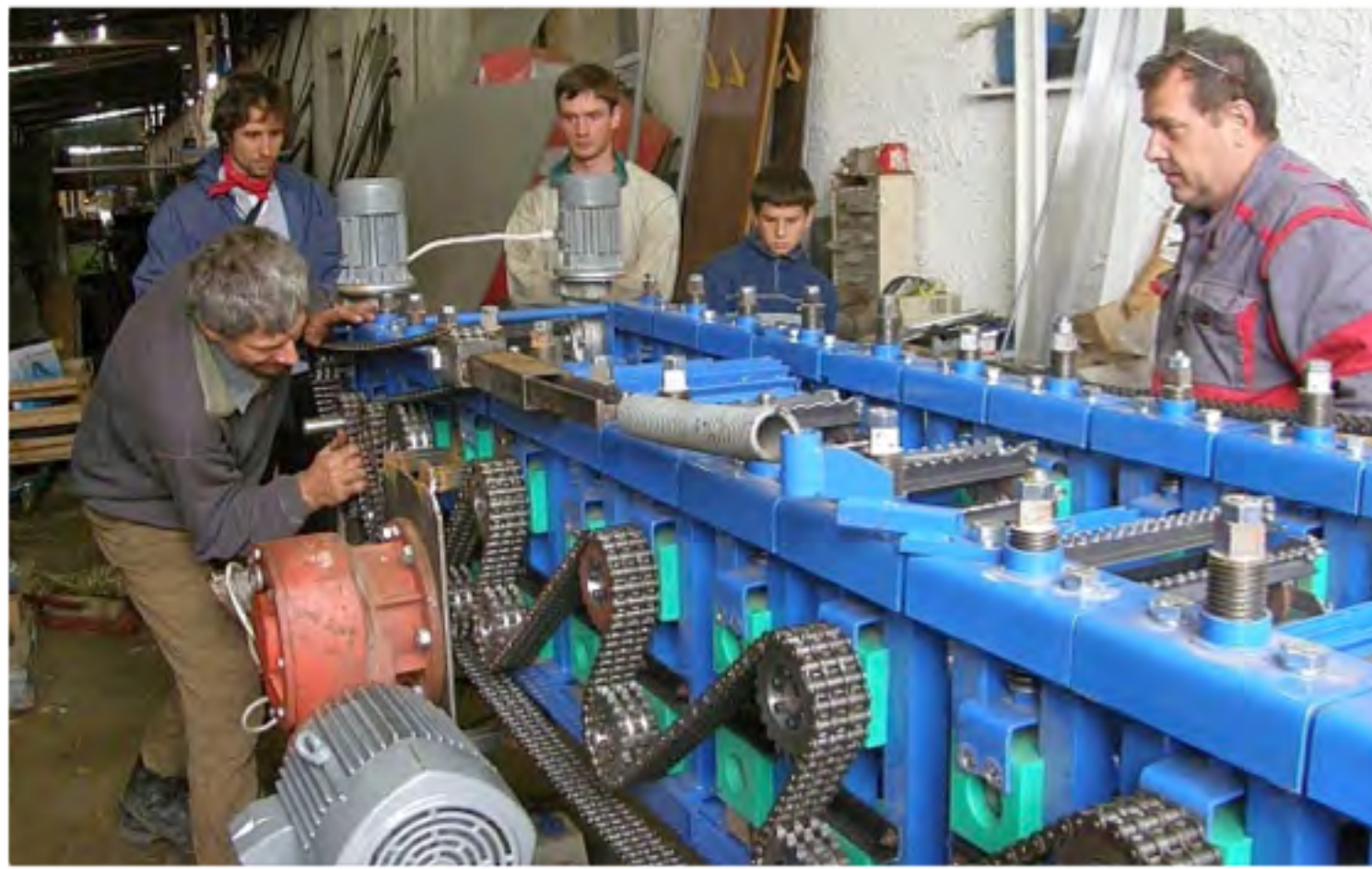
Weak point: processing seeds after harvest



FIBER PROCESSING

- 2004 - 2008 processing facility of Mr. Benedikt
- 2007 - 2008 Cannabia processing facility
- Spring 2015 Naporo Co. moved from Czech to Austria
- Home made machine by Václav Lapka
- Rent machine from Hanfland (winter processing on field)
- Cooperative KLUBOZ - decorticator inspired by G.W. Schlichten
- Machine in Biofarma Sasov - in progress

Weak point: capacity



HEMP FLOWERS HARVEST



- Hand made cutting and collecting
- Harvest by machines



DRYING AND PROCESSING

- air drying
- drying machines / gas fuel
- waste heat from biogas power stations



Week point: temperature for drying and storage



HEMP FLOWERS APPLICATIONS

- pure herbal material - food industry (tea & spices)
- water extractions - drinks & SPA
- alcohol extractions - cosmetic
- pellets - beer industry
- top flowers - alcohol industry

Weak point: missing legislation



HEMP EXTRACTIONS

- 2004 - 2013 in grey zone - produced as hemp "*pasta*"
- From 2014 under special "Permission for manipulation with psychotropic substances" provided by Inspectorate of Narcotic Drugs and Psychotropic Substances (INDPS) authorized by CZ Ministry of Health
- Everyone works with hemp extract is supervised by INDPS



HEMP PRODUCTS - FOOD

- Health shops
- DM markets distribution / organic department
- Home recipes / online blogs
- TV shows / magazines



HEMP PRODUCTS - COSMETICS

- Sold in common markets and pharmacies
- More than 20 producers
- Hand made product online
- Hemp seed oil in Czech pharmacopoeia



HEMP PRODUCTS - OTHERS



- Hemp buildings companies
- Hemp textile
- Hemp rope and twine
- Hemp paper
- Hemp fish feed

MEDICAL CANNABIS ACCESS

- 4/2010 - Parlament seminar about medical *Cannabis*
- 8/2011 - Starts Petition for medical *Cannabis*
- 4/2013 - Allowed law No. 52/2013
- 12/2013 - Established patient organization KOPAC
- spring 2014 - Imported first medical *Cannabis* from Holland
- 3/2015 - International medical *Cannabis* conference in Prague
- ? .. 2015 - expected first medical *Cannabis* from Czech producer

Excluding industrial hemp

RESEARCH AND DEVELOPMENT



- Academy of Sciences (UCHP) in Prague
 - Agritec Šumperk
 - University of Chemistry and Technology in Prague (VSCHT)
 - Czech Agricultural University in Prague (CZU)
 - Mendel University in Brno
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Thanks for your attention

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