



**Cotton Industry in Poland**

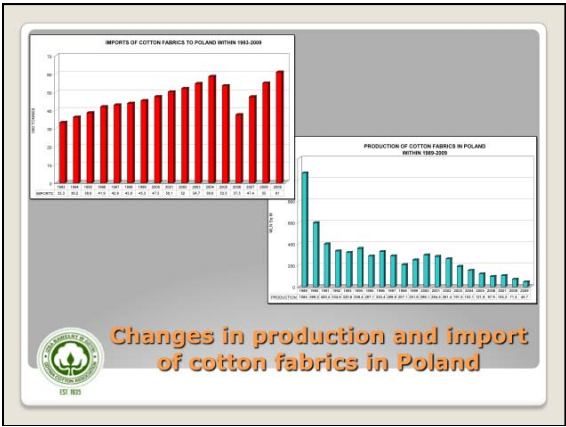
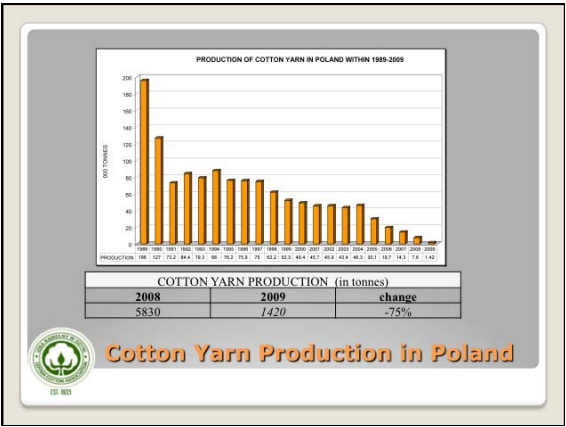
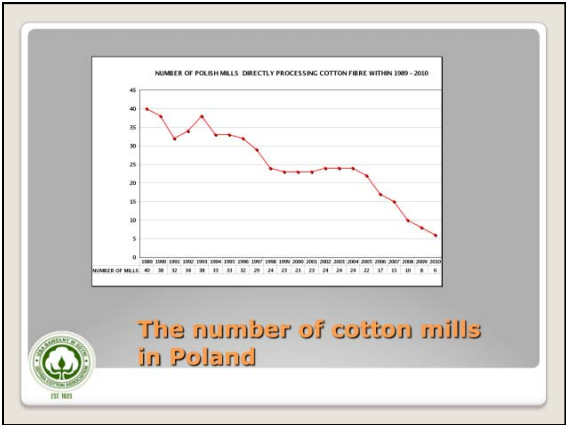
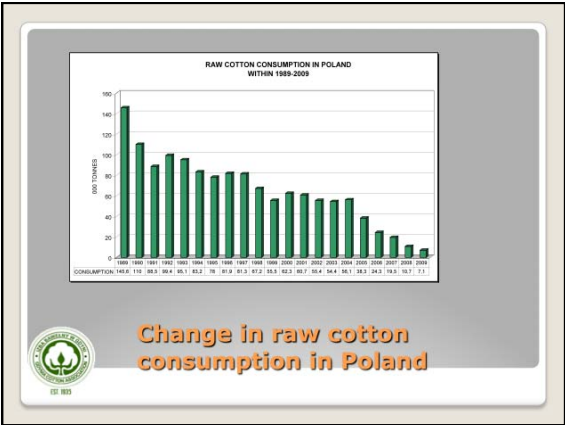
**GDYNIA COTTON ASSOCIATION**

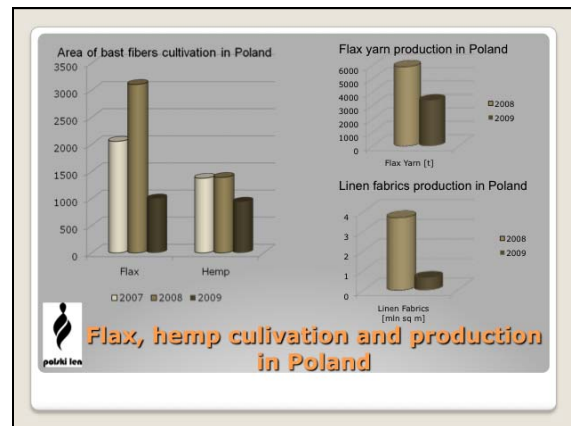
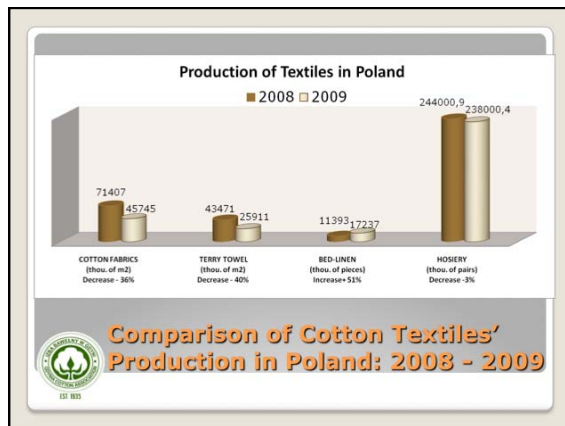
Malgorzata Zimniewska  
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**General Situation in the Polish Textile Sector**

- Similar to European countries:
- Asian-Chinese competition,
- Liquidation of some textiles companies,
- Decreasing tendencies in textile production,
- Value of production sold in the whole textile branch in Poland was:
  - ca. 2,1 bln USD in 2009,
  - Dropped by 9% in comparison to 2008

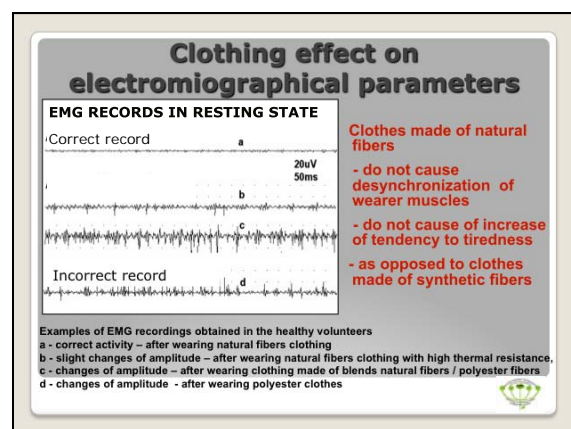




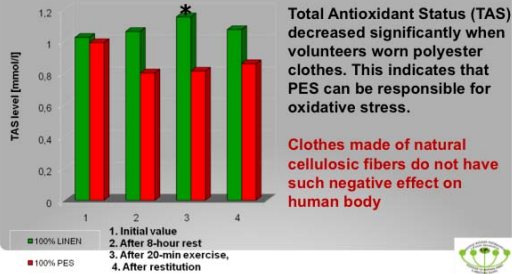
- Products made of natural fibers as a niche product for demanding consumers,
- High quality of Polish natural fibers textiles,
- Boutiques with natural fibers products as a main way of sale,
- Development of bed-linen production,
- Stabilization and good prospects for development of Polish knitting branch,
- Significant development of production of cosmetic and hygienic products based on cotton raw material

**Chance for improvement and positive aspects of cotton sector in Poland**

**Research supporting the promotion of textiles made of natural fibres**

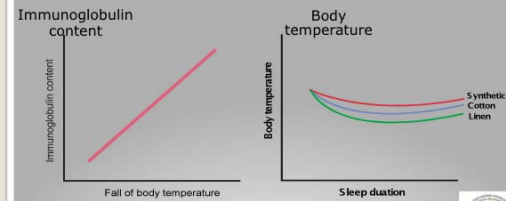


### The effect of clothes on oxidative stress parameters



### The effect of textiles on human body during sleep

The bed-clothes made of natural fibers provide sounder sleep, quicker regeneration of the organism by lower inner temperature and higher level of immunoglobulin A



Investigation of energetic cost of volunteers' physical effort while wearing garment made of cellulosic and polyester fibers showed that garments made of cellulosic fibers had the most favorable effect on the energetic cost of physical work, the time of restitution of volunteers and their endurance and efficiency

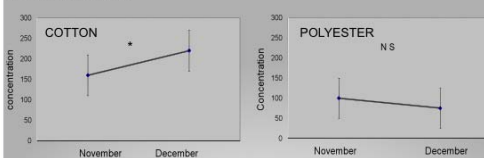
The endurance of volunteers wearing 100 % cellulosic fiber garment was better than in case of run without garment or in case wearing PES garment

The most unfavorable effect on the endurance of volunteers was observed in case of wearing the garment made of 100% PES microfibers



### The effect of clothes on sebaceous glands activity

Pyjamas made of natural fibers improve sebaceous glands activity. Synthetic clothes can cause the reduction of sebaceous glands activity, reduction of sebum secretion, which process, by covering the surface of the skin, protects it from drying and susceptibility to bacteria and atopic dermatitis.



Average Waxester in pyjamas [µg/ml]

The studies proved, that garment made of cellulosic fibers like cotton, linen and hemp has a positive influence on physiological parameters of human body.

Actions related to popularization of research on everyday clothing capability for ensuring health and well-being can improve consumption of natural textile products and improve the situation in natural fibers sector.

### CONCLUSION

## Poland



**Location:** Central Europe,

**Border countries:** Belarus, Czech Republic, Germany, Lithuania, Russia (Kaliningrad Oblast), Slovakia, Ukraine

**The country extends:**  
➤ 876 km (544mi) from north to south  
➤ 689 km (428mi) from east to west

**Total area -312 843 sq km**  
(120 726 sq mi)  
(the 69th largest country in the world  
the 9th largest in Europe)

**Population-over 38 mln people**

**Industries:** machine building, iron and steel, coal mining, copper, salt, chemicals, shipbuilding, food processing, glass, beverages, textiles, timber

**Agriculture products:** potatoes, fruits, vegetables, bast fibers, wheat, cereals, poultry, eggs, pork, dairy, fish

**Thank you very much**