International Forum for Cotton Promotion
Session

Educational Steps in Cotton Technology:
from fiber to clothing

Evolution of products, industries and training
facilities for the cotton industry’ future

Buenos Aires, Argentina
September 7, 2011

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Introduction

Question from Jeffrey Silberman:

“We always focus on people in industry, but what about those who are the industry's future?”
Introduction

To answer this question, at least we have to look after

• How much evolution in the products can be observe on the period
• How are organized the industries
• What are the relationships between industries
• What are the actual training / teaching possibilities
• What will be their evolution along the period

➔ To draw some conclusions
Life cycles of goods on the market depending on the products

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- For technology products, life cycle is shorter on very dynamic markets
- For leisure products, life cycle is longer on dynamic markets
- For housing, clothing and confort markets, life cycle is sometimes longer and the markets are stable

Source: Un Panorama des Grandes Surfaces Spécialisées en France Étude réalisée pour la DECAS Décembre 2000 RHODE

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Textile is on the latest market

Permanent evolution however
Various supply chains
Supply chain and its environment

Any supply chain is made of several companies living in an environment that gives opportunities and constraints.
Cotton cycle and textile chain

- Seeds
- Sowing
- Culture (IPM, fertilizers, Pest control …)
- Picking
- Ginning
- Spinning
- Other fibers
- Weaving
- Knitting
- Dyeing / Finishing / Clothing
- Marketing / selling
- Upcycling – Recycling - Downcycling
European Technology Platform for the future of clothing and textiles.
“Main education profiles”

MECANICS

CHEMISTRY

GESTION

ACCOUNTING

MANAGEMENT

LITTERATURE / LAW

http://www.nadoz.org/11_Formation_Initiale/Formations/ListeFormations.asp
Matching education and industry needs

Supply chain
PHARMACY
FINAL USER

Supply chain
TEXTILE
FINAL USER

Supply chain
FOOD
FINAL USER

Supply chain
...
FINAL USER

INITIAL TRAINING

MECANICS

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RAW MATERIALS / IDEAS

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RAW MATERIALS / IDEAS

Supply chain PHARMACY
FINAL USER

Enterprise

Finance / Gestion

RH / Personnel

Administration

Qualité

Maintenance

Supplies / SAV

Production

Transformation

Creation

Achieves

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Partial conclusion

- Progress in education in the “main education profiles” will occur for any supply chain / industry

  - Progress will also benefit to textile and cotton industries …
Partial conclusion

• Progress in education in the “main education profiles” will occur for any supply chain.

➤ Progress will also benefit to textile and cotton industries …

… as long as textile and cotton industries “appeal” well trained persons!
The question becomes…

- How to locate skilled and well trained persons?
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- How to induce “passion” for textile and cotton?
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• How to increase the ‘attractivity’ of the textile and cotton industries?
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- How to locate skilled and well trained persons?
- How to induce “passion” for textile and cotton?
- How to increase the ‘**attractivity**’ of the textile and cotton industries?
- How to promote cotton in the mind of our politics and/or managers so that, from now and permanently, they will vote motivating basic and applied research and development budgets coming to education efforts?
Observation and possible consequences

- Evolution in the existing products
- Number of products/goods increases
- Concentration of the companies => fewer companies
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Concentration of the research and education means

- Decrease of the number of researchers and of educating persons and educated persons
- Risk of lower cross-fertilization between disciplines/markets
- Risk of lower attractiveness
Challenge: « market » our efforts at all steps
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Source: Well dressed? Published by Institute for Manufacturing
University of Cambridge, Mill Lane
Cambridge, United Kingdom
www.ifm.eng.cam.ac.uk
ISBN 1-902546-52-0
Challenge: «market» our efforts at all steps

To increase
- Attractivity
- Budgets
- Adapted training programmes

Source: Well dressed? Published by Institute for Manufacturing
University of Cambridge, Mill Lane
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ISBN 1-902546-52-0
Some possible steps to go …

Summary

SKILLED PERSONS WORKING IN TEXTILE INDUSTRY USING COTTON IN THE FUTURE

What are the actual needs and are the actual needs fulfilled?

Where do we want to go from here?

What about those who are the industry’s future?
Some possible steps to go …

Summary

Questions and challenges

What about those who are the industry’s future?

What are the actual needs and are the actual needs fulfilled?

Where do we want to go from here?

Organizational
  Ethical
  Environmental
  Technical
  Political
  Social
  Quality
  ...

Better salaries and recognition

Purchase: lower prices

Sales: best margins and best customer satisfaction

What knowledges do we need to acquire / to merge together?

Individuals and companies strategies
Some possible steps to go …

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What are the latest appearing constraints?

Are the actual managers aware of all of these? Can they make decision toward the future?

Lobby / inform

Develop a strategy and a road map for future developments

Locate skilled persons

Increase attractiveness of textile/cotton

SKILLED PERSONS WORKING IN TEXTILE INDUSTRY USING COTTON IN THE FUTURE

What are the actual methods to transmit knowledge?

Are the actual communication tools used properly?

What are the emerging communication tools?

Organizational

Ethical

caractéristiques transformation

Technical

Political

Social

Quality

IFCP

ICAC

ITMF

WTO

Cotton Incorporated

Cotton and textile assoc.

...

Convince individuals and companies about the objective
Thank you for your attention

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