



GMP +-scheme: a short introduction

Product Board Animal Feed - Dik Wolters





Content

- GMP+-standards: general characteristics
- GMP+ B1: Production of feed
- GMP+ B4: Transport
- GMP+ B3: Collection and Trade
- GMP+ B2: Production of feed ingredients



Overview GMP+-scheme: scopes

Standard		B1	B4	B3 (2007)	B2 (2009)
Activity	Product				
Production	Compound feed	X			
	Premixtures	X			
	Feed materials	X			X
	Feed additives	X			X
Trade	All feeds	X		X	
Collection	Feed materials	X		X	
Storage & transshipment	All feeds	X		X	
Transport	All feeds		X	(X)	(X)



GMP+ : General characteristics

- Requirements to control safety of all activities & feeds
 - Management system requirements
 - ISO9001-2000 (B1/B4), or
 - 'tailor-made' (B2/B3)
 - HACCP-principles fully incorporated
 - Extensive requirements for prerequisite programme
 - In compliance with EU Feed Law
 - Wording:
 - General & abstract (B1/B4), or
 - More practical and specific (B2/B3)
- Up-to-date to control feed safety



GMP+: HACCP

- All Codex Principles are included
 1. Principle 1 Hazard analysis
 - Hazard identification
 - Risk assessment
 2. Principle 2 Determine Critical Control Points (CCP's)
 - Define Control Measures
 - Define CCP's
 3. Principle 3 Determine standards for CCP's
 4. Principle 4 Monitoring CCP's
 5. Principle 5 Define corrective measures
 6. Principle 6 Validation and verification of HACCP plan
 7. Principle 7 Documentation and registration of HACCP-plan

- Useful document: HACCP Guideline



GMP+: In compliance with EU Feed law

GMP+ has fully incorporated the feed law focussed on feed safety-items

- General Food Law 178/2002
- Feed Hygiene Regulation 183/2005
- Undesirable Substances 2002/32
- Max. Residues Pesticides 396/2005
- Animal Byproducts 1774/2002
- Animal Protein 999/2001
- Forbidden Feed Materials 2004/217
- Feed Additives 1831/2003



GMP+: In compliance with EU Feed law

GMP+ has partly incorporated or refers to feed law related to trade-items

- Feed Additives 1831/2003
- Salmonella regulation 2160/2003
- Trade in feed materials 96/25
- Trade in compound feed 79/373
- Other regulation 93/74, 90/167, etc



GMP+: Prerequisite Programme

- Codex: `Without a good prerequisite programme it is not possible to implement a HACCP-plan successfully`
- Precondition to apply HACCP
- To create a basic hygiene level in the company
- Elements
 - *Education and Training*
 - *Infrastructure/Buildings and Working Environment*
 - *Facilities and Equipment*
 - *Cleaning and Maintenance*
 - *Pest Control*
 - *Administration*







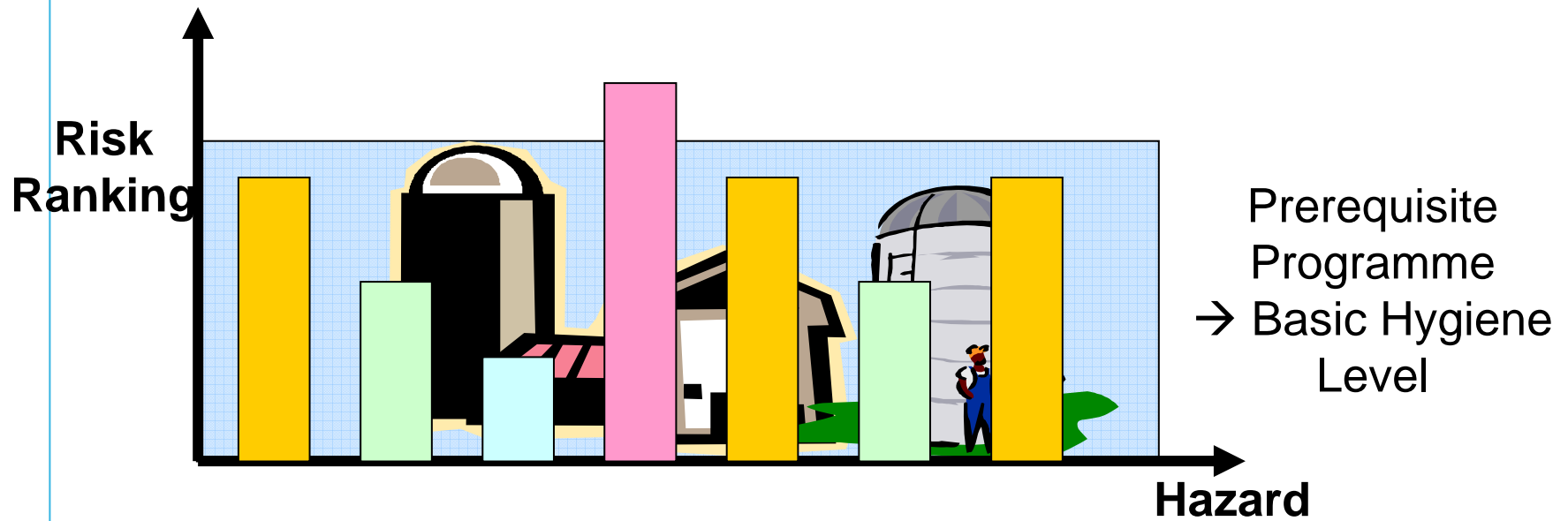








How does a prerequisite programme work?



- Almost all risks are controlled by control measures that are part of the Prerequisite Programme.
- For some risks specific control measures are necessary.



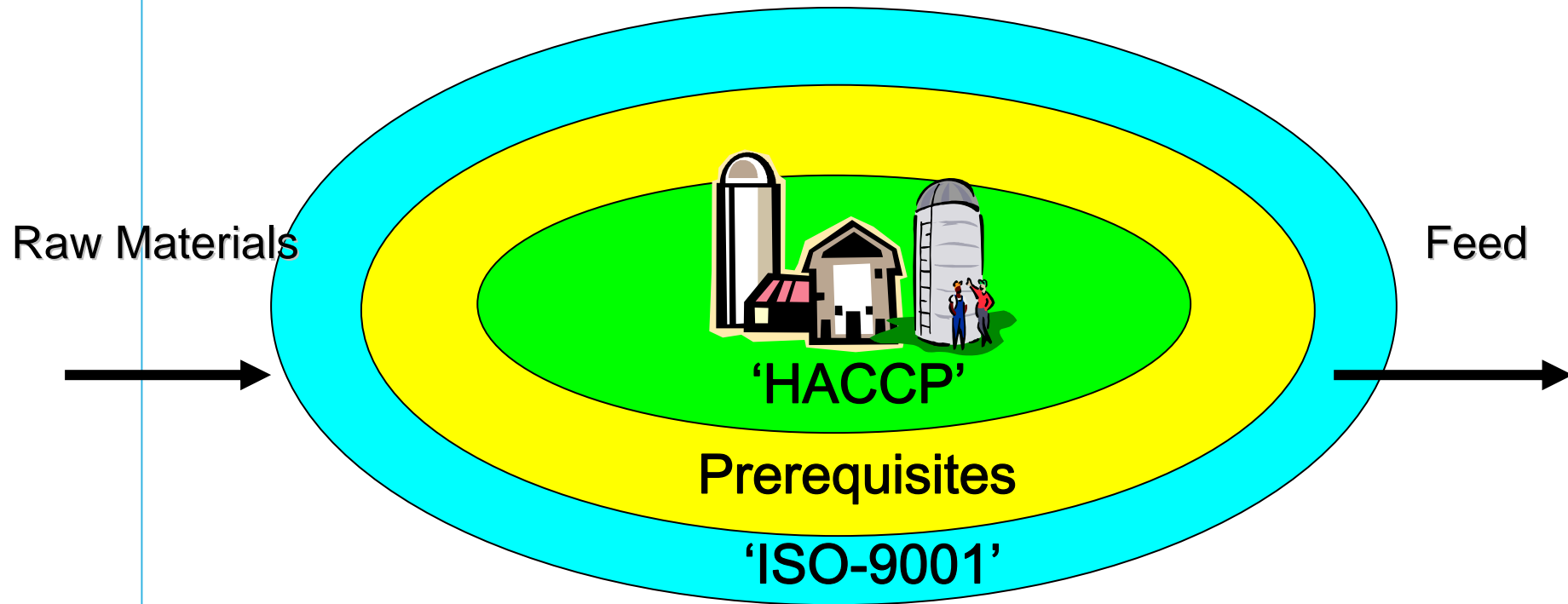
Content of GMP+ B1

Structure is identical to ISO-9001(2000)

1. Introduction
2. Normative references
3. Terms and definitions
4. Feed safety system
5. Management responsibility
6. Management of resources ('prerequisites')
7. Process control, including HACCP
8. Measurement, analysis and improvement



Schematic overview of GMP+ B1-system





GMP+ B4

- GMP B4.1 Road Transport
- GMP B4.2 Affreightment for Inland Waterway
- GMP B4.3 Transport by Inland Waterway
- GMP B4.4 Affreightment for Sea Transport
- GMP B4.5 Affreightment for Rail Transport

- Complementary to GMP B1
 - same ISO-structure
 - easy to combine with GMP B1-standard
- Basic requirement for transport:
 - adequate cleaning before transport of feed to avoid contamination with previous loads
 - correct administration → demonstrable



GMP+ B4.1

- Requirements for road transport
- Also structured against ISO-9001 (2000)
- Own HACCP-plan is not required
- Results of HACCP-based risk assessments are laid down in International Database Transport
 - Experts assess a product and define required cleaning method
 - IDT is used by QS (Germany), GMP-Ovocom (Belgium), GMP+-PDV (The Netherlands) and Qualimat (France)
 - one database for several schemes
 - harmonisation



GMP+ B4.2

- Affreightment of transport by inland waterway vessels
- All activities related to the organisation of the transport
- Broker, producer of feed material, trader, compound feed producer
- Key requirements
 - Load Compartment Inspection (LCI)
 - Use of only GMPB4.3-inspected vessels for the transport



GMP+ B4.3

- Transport of the feed by inland waterway vessel
- Code of Practice (in compliance with Feed and Food Hygiene Regulation)
 - Part 1: Requirements
 - Part 2: Work plans with practical information about
 - LCI's
 - Hygiene and cleaning
 - Loading, transporting and unloading
 - Previous loads
 - Identification and traceability
 - Complaints



GMP+ B2 and B3

- 'Tailor'-made standards
- Requirements to control safety
 - For specific activities }
 - For specific feeds } limited scope
 - With specific structure and wording



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	Feed additives	X			X
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Transport	All feeds		X	(X)	(X)



GMP+ B3: Content

- Introduction, normative references, definitions
- Requirements for Q-management system
- Prerequisites
- Specific requirements regarding
 - Trade
 - Collection and storage
 - Transport
- Annex: Guidance for HACCP



GMP+ B3

Similarities with B1

- Relevant quality management requirements (~ ISO 9001)
 - Prerequisites
 - HACCP
 - EU feed law proof
- complete and robust feed safety system

Differences with B1

- Different scope, made for special group of companies
 - Not complete ISO-structured, more tailor-made for trade & collection
 - Transport requirements for own products are included
 - More practical wording, more examples
- Requirements in one standard

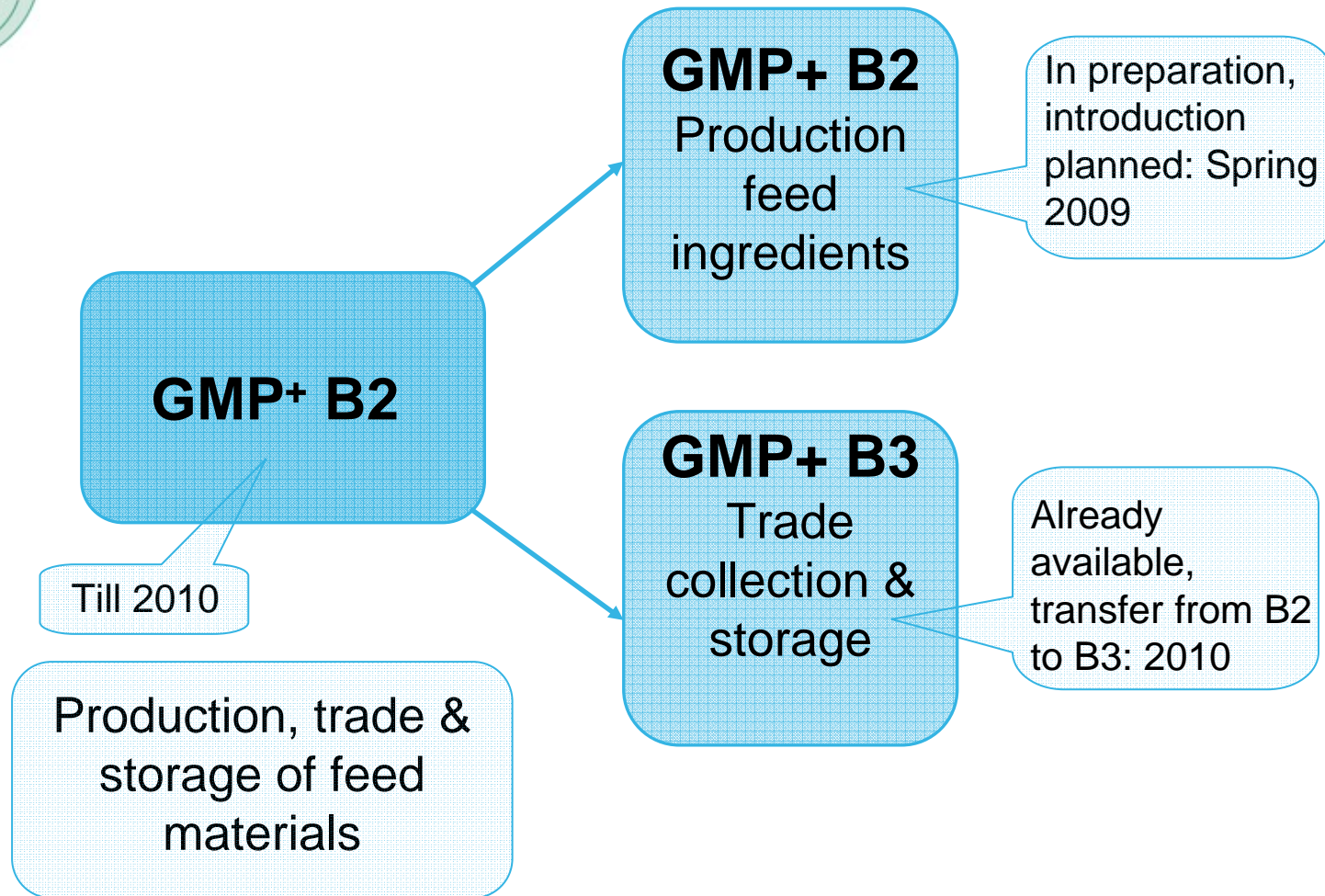


Current situation GMP+ B2

- Introduced in 2001 for roll out of GMP+ into supplying chain (abroad)
- (Simple) safety control standard for starting worldwide application
- Mainly HACCP principles
- Few management system requirements
- Initially for production of feed materials
- Extension to trade, collection & storage in 2002 due to need in the market



Current situation GMP+ B2





GMP+ B2

- 'Under construction'
- Will be similar to GMP B3, but wil have IFIS-
/EFIP-content
- Different scope



Thanks for your attention

Discussion