



ACP-EU TBT Programme

090-16 - Training for Regulatory Authorities, Businesses and Communities of the ARSO Members from EAC and SADC on Risk Management in Regulatory Frameworks: Towards a Better Management of Risks

PART II – III – IV

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PART II

Fishery/Aquaculture risk management in Regulatory framework with detail in food safety



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Application of UNECE Recommendation

- Risk management could be the driving force behind the fishery/aquaculture value chain (example: food safety system, ...)
- Fishery crisis management in regulatory system could help to a ready answer to the fishery/aquaculture catastrophic events



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Fishery risk management

- Regulatory stakeholders to perform the various risk management function
- The stakeholders can properly managed the risks inside the regulatory system



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Namibian fishery chain risk management

- Balance between safety and measures that have a cost for consumers, citizens and Fishery/Aquaculture Business Operator
- Important to solve fishery value chain strategic issues



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Fishery risk management

- Risk management needs assessment survey conducted for the fishery/aquaculture system (detail in food safety and other)
- It was conducted theoretically (training) and practically in the field (processing and landing sites) by the trainees



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Fishery risk management in Namibian regulatory framework

- International, regional and national level (landing site different risks level and regulatory framework classification) must be considered, as for import and export
- The groups mission about risk managemnt needs assessment survey, in two factory and one vessel



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Theoretical Fishery/Aquaculture risk management in a regulatory system

- Chosing the regulatory system (food safety example, aquaculture feed, but other ...)
- Traceability on the fishery supply chain and management of assets

Risk cycle	Risk consideration
Risk identification and assessment (at landing sites example)	Exposure
Risk analysys and evaluation: risk prioritisation	Sensitivity
Chosing risk treatment strategies and mitigation	Adaptation capacity



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Namibian fishery chain risk management

- Implementation the proposed risk strategies within the Fishery (FISHSAN) for Namibia
- Drafting action plan for different components (action plan must include risk-crisis management and monitoring, review and improving management process)



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Fishery Risk Management Strategic Action Plan for Namibia - FISHSAN -

Component	Title	Time		
C1	Legislation, regulation, manuals, standard developments, ...	Short term		
C2	Training	Medium term		
C3	Financial and support	Medium term		
C4	Communication , WG, coordination mechanism between stakeholders	Short term		
Management	Continuous organisation of the action plan	Short term		



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Template FISHSAN for every Component

- **RATIONALE**
- **a Finding**

b Situation analysis

c Recommendation

Supporting activities

- **Component 2**

Food Safety, Sanitary condition of aquaculture products is improved

- Situation assessment and consultative road map development, establish working group on aquaculture food safety management among concerned ministries.
- Review and propose aquaculture food safety legislation, regulations, manual/checklists and technical national plan (chemistry, microbiology, parasitology, ...) to be harmonized with EU International Food Safety package tailored to the country's needs (MRL & Veterinary Product Limits) and training
- Training and on the job training of core senior staff of food safety system auditing in FiA and/or MIH and train core management staff on food safety management



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Template FISHSAN table

- Activity title
- Beneficiary
- Responsible
- Indicator
- Outputs
- Short description of the activity
(including risk cycle, crisis management and monitoring, review and improving management process)
- Time
- Budget
- ...



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PART III
ADDITIONAL ON FOOD
MANAGEMENT SURVEILLANCE

PRACTICAL RISK ANALYSIS
EXAMPLE GERMANY



Regulation (EC) 882/2004 (official controls of feed and food)

Article 3 General obligations with regard to the organisation of official controls

- regular
- risk-based
- moderate frequency
- without application
- on every step of food chain

The frequency of inspection and sampling depends on the risk of the manufactured or processed fishery products

- ➔ risk-orientated inspection of establishment
- ➔ risk-orientated sampling (management of sampling)



The frequency of official controls in food business determined by
means of a risk-oriented system of assessment
based on the monitoring of 4 features
(example from Germany)

Feature I: type of food business

*Feature II: behavior of the food business operator regarding
compliance with food regulations*

Feature III: performance of the self monitoring system

Feature IV: hygiene management and granting of points for all features



Treatment of the risk oriented food surveillance

at first: evaluation of the constant risks from a factory
→ classification of a correspondent risk category (RCat)

<i>Risk category</i>	<i>Risk</i>	<i>score</i>	<i>example</i>
<i>RCat 1</i>	<i>high</i>	<i>100</i>	<i>producer of minced meat or sushi</i>
<i>RCat 2</i>	<i>median (without direct marketing)</i>	<i>80</i>	<i>producer of food for infants</i>
<i>RCat 3</i>	<i>low (without direct marketing)/ high risk (direct marketing)</i>	<i>60</i>	<i>butcher shop</i>
<i>RCat 4</i>	<i>median risk (direct marketing)</i>	<i>40</i>	<i>bread shop</i>
<i>RCat 5</i>	<i>low risk (direct marketing)</i>	<i>20</i>	<i>honey retail</i>
<i>RCat 6</i>	<i>no risk of contamination</i>	<i>0</i>	<i>store for soft drinks and water</i>



Schema zur Risikobeurteilung von Betrieben, die der Lebensmittelüberwachung unterliegen



Niedersachsen

MFB-05-334-LV2 / Version 1

pro Merkmal ist eine grau hinterlegte Beurteilungsstufe anzuklicken

nur die gelb hinterlegten Felder können ausgefüllt werden



Categorization to microbiological hazard potential

high	median	low
<ul style="list-style-type: none">- sushi- cold smoked fish- „graved salmon“ like ceviche- fresh mussels	<ul style="list-style-type: none">- fresh fish- hot smoked fish- mild salted fish- cooking shrimps, crabs- frozen fishery products	<ul style="list-style-type: none">- Pasteurized products- hard salted products- cooking fish- surimi- dried fishery products- tinned products

higher potential by biochemical / toxicological hazards:

- mussel products
- fishery products with potential to biogenic amins (histamin)
- subtropical „reef-fishes“ (ciguatera)



Evaluation of the frequency for the control of establishments

risk class	score	risk category						frequency
		1	2	3	4	5	6	
1	200 – 181	200–						everyday
2	180 – 161		180–					weekly
3	160 – 141			160–				monthly
4	140 – 121				140–			quarterly
5	120 – 101					120–		every 6 month
6	100 – 81		100				100–	annual
7	80 – 61			80				every 1,5 years
8	60 – 41				60			every 2 years
9	40 – 0					40	20	0



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END

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Regulatory framework in food safety and risk management



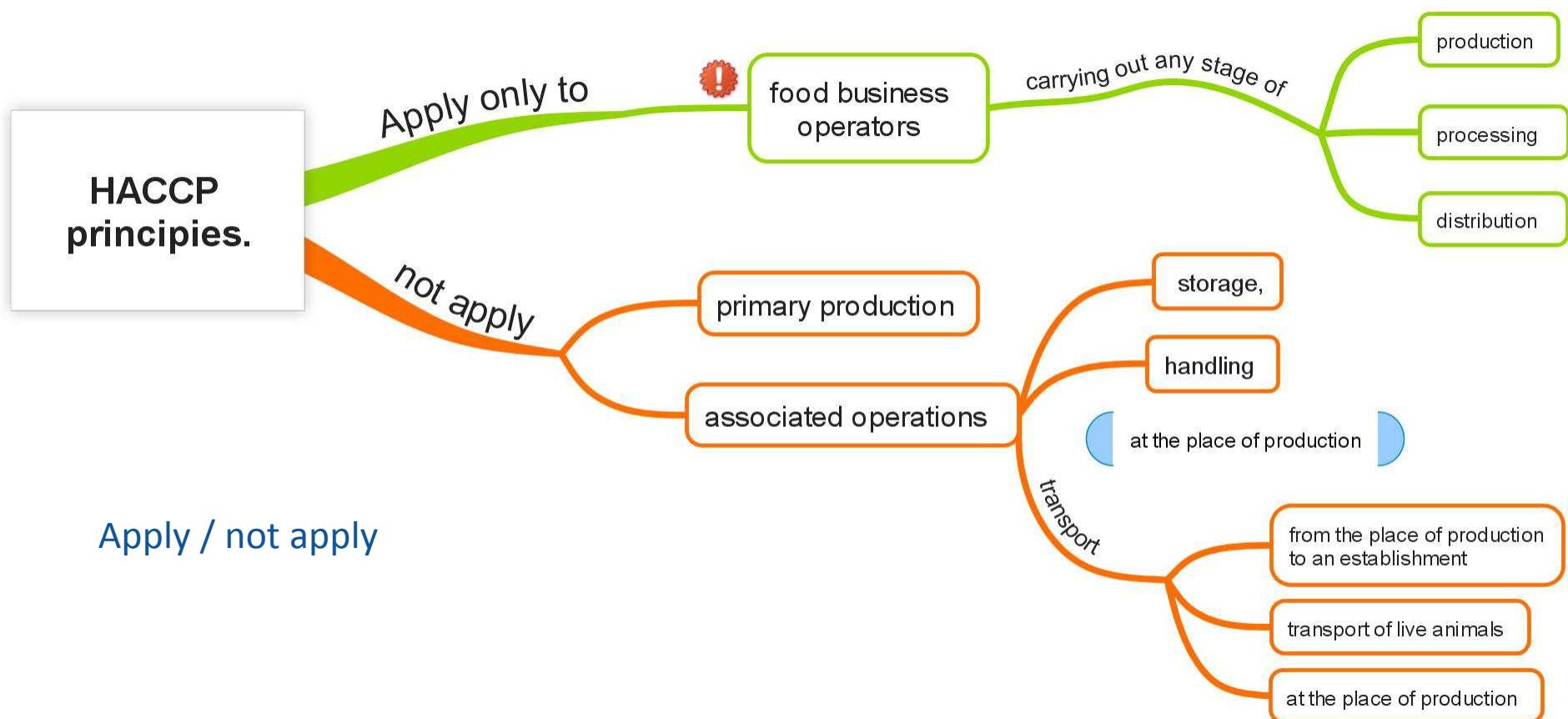
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ADDITIONAL ON HACCP

TO BE MORE CLEAR

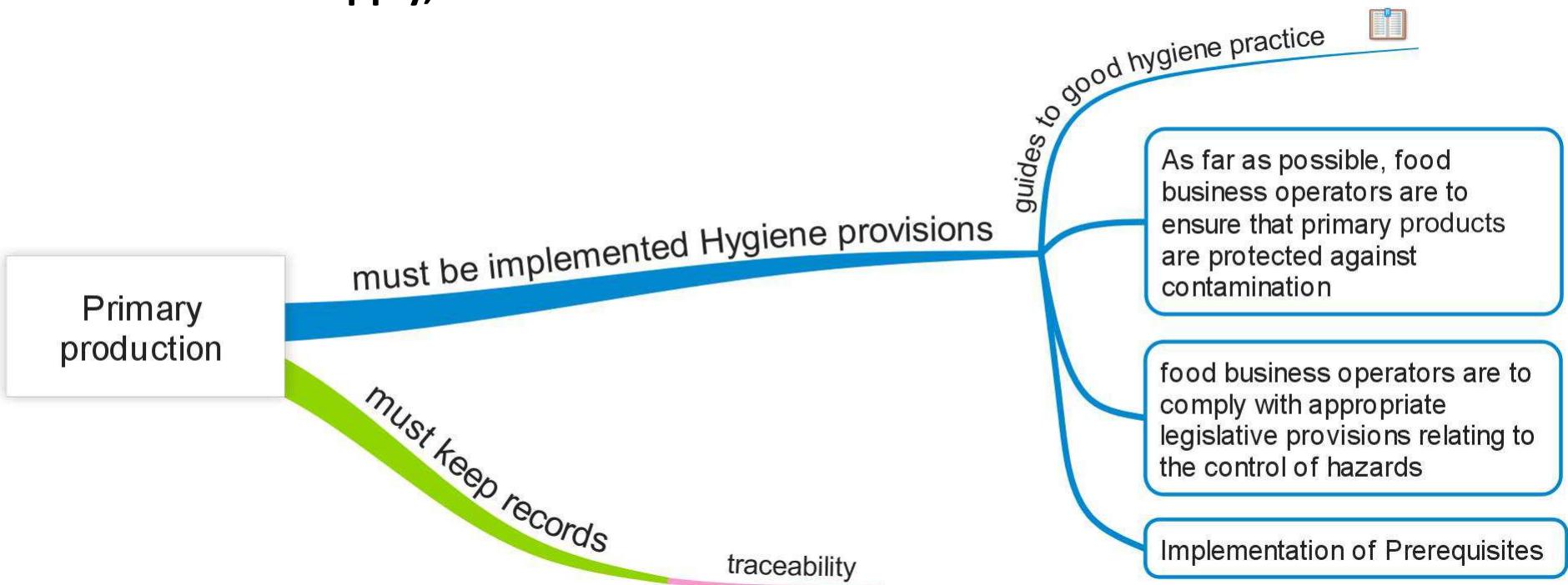
HAZARD ANALYSIS AND CRITICAL CONTROL POINTS



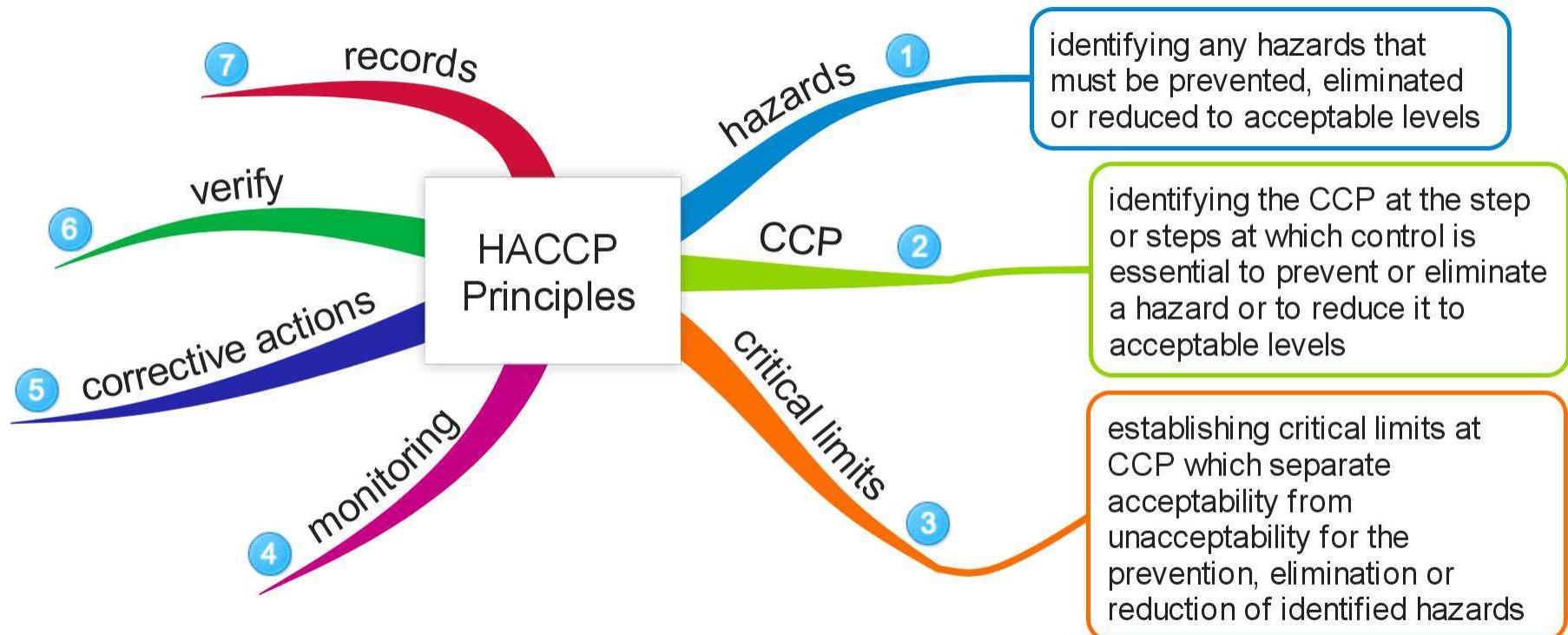


HAZARD ANALYSIS AND CRITICAL CONTROL POINTS

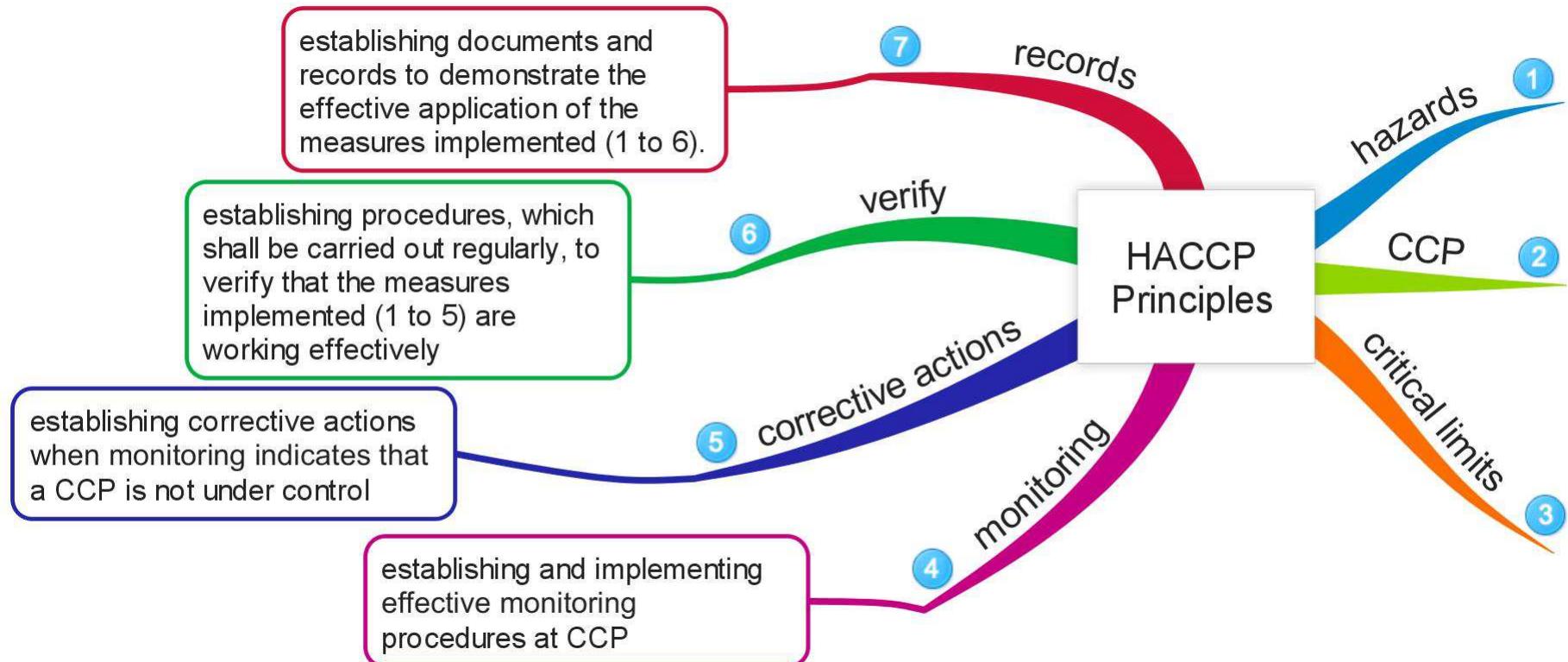
HACCP not apply, but.....



HACCP Principles Article 5 Reg (EC) 852/2004



HACCP Principles Article 5 Reg (EC) 852/2004





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