

Planning model supporting information and service agency in meat chains designing services in chain oriented health management

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- Actors of the meat production chains demand specialised information and communication services for interplant health management
- Planning models for services can be adapted to organisations in meat sector
- Provider ship for interplant health management enlarges the portfolio of cooperative services

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Technical utility (NI_{tec})

- Temporization (ZG)
- Information increase (IZ)
- Period for decision making (ZE)

$$NI_{tec} = \frac{1}{3} \big(ZG + ZE + IZ \big)$$



Organisation utility (NI_{org})

- Level of willingness exchanging information (GB)
- Level of traceability (GIR)

• Level benefit increase (GNE)

$$NI_{org} = \frac{1}{3}(GB + GIR + GNE)$$

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+ (m	Service specialist	Full-Service- Provider	
	Capacity (+)	Capacity (+)	
	Service specialist	Full-Service- Provider	
	Capacity (-)	Capacity (-)	
			→

$$di_P = \frac{m_P * w_P}{m_{P \max} * w_{P \max}}$$

$$dk_{(P)} = \frac{t_{P}(k_{P} + d_{P})}{t_{P \max} * (k_{P \max} + d_{P \max})}$$

 di_{P} = Service intensity each production field di_{ges} = Service intensity of the service provider dk_{P} = Service complexity each production field

dk_{ges}= Service complexity of the service provider

d = Document

m = Number of user

- Service combination
- = Production field
- t = Service typology
- w = Repetition of service combination per organisation and year



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universitätbonn I. Full-Service-Approach



Quality and health management areas

Specific software tools

User groups/Actors of the meat chain

II. Joint Cooperation Company Approach





Quality and health management areas

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User groups/Actors of the meat chain

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- The model combines 9 actors, service provider and four coordinative quality management tasks supported by 16 specific software tools
- Indices summarize the analysed information and simplify the decision making
- The implementation of adapted or new services results in one of three different business approaches



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