Compliance in Agri Food Supply Chains

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Outline

- What is compliance?
- Compliance: Fresh table grapes in South-Africa (Use Case)
- A generic compliance architecture
- An open information architecture



Compliance

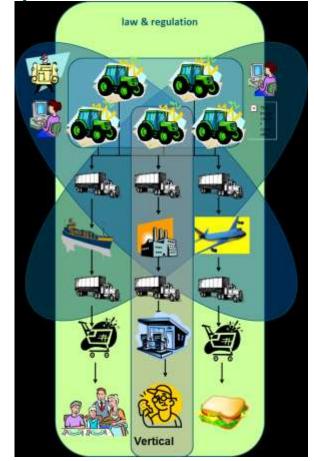
"The action or fact of complying with a wish or command" (Oxford Dictionaries)



Compliance

"The action or fact of complying with a wish or command" (Oxford Dictionaries)

- GlobalG.A.P.
- Organic certificate
- SIZA (Global Social Compliance Programme)



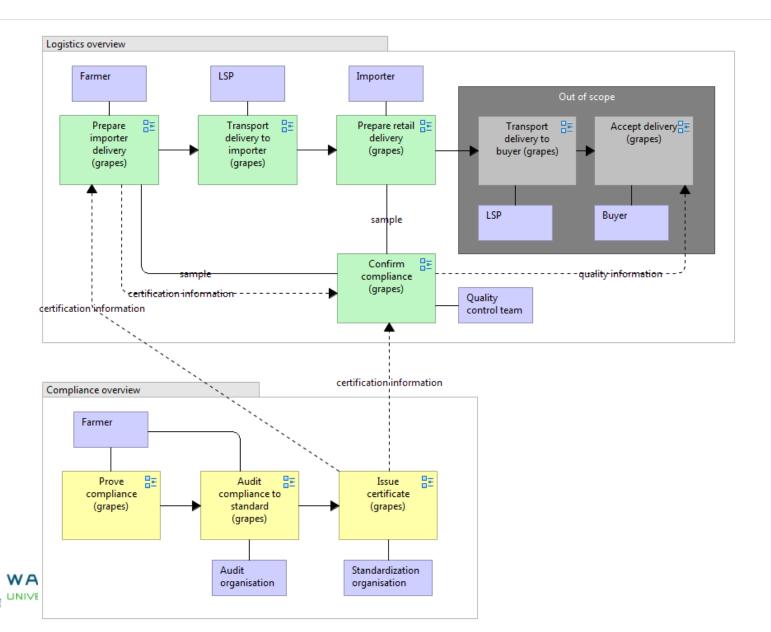


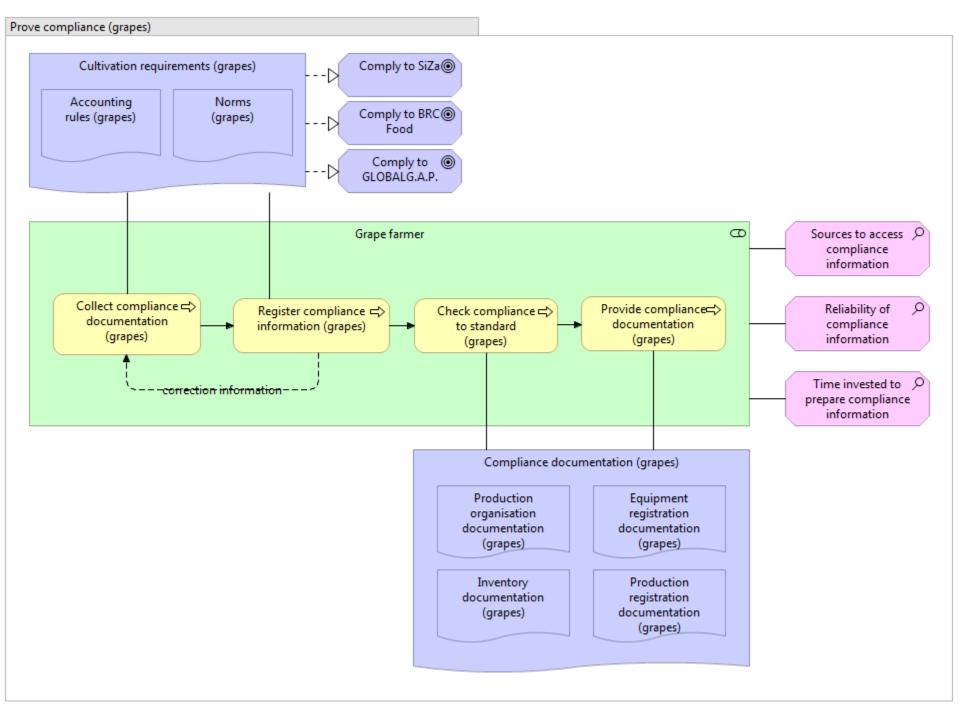
Compliance: the use case fresh table grapes in South Africa

- Two major grape growing areas:
 - Orange River Valley in the Northern Cape
 - Hex River Valley in the Western Cape
- Grape production is about 1,800,000 tonnes per annum of which about 300,000 tones are table grapes
- About 300 companies involved



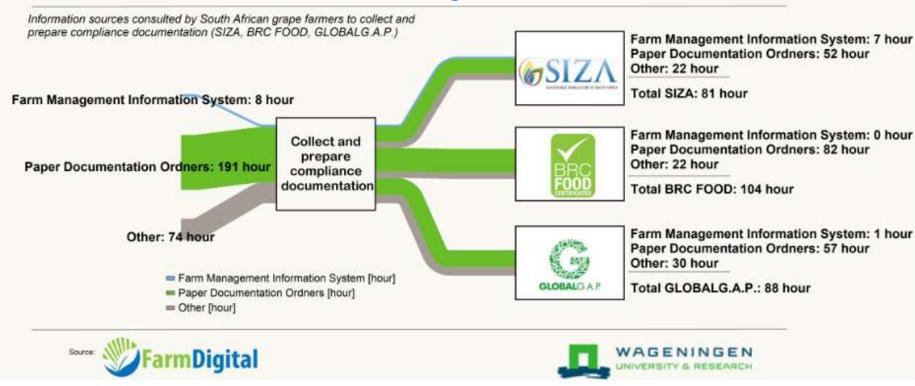
Generic Model Table Grapes





Use Case fresh table grapes

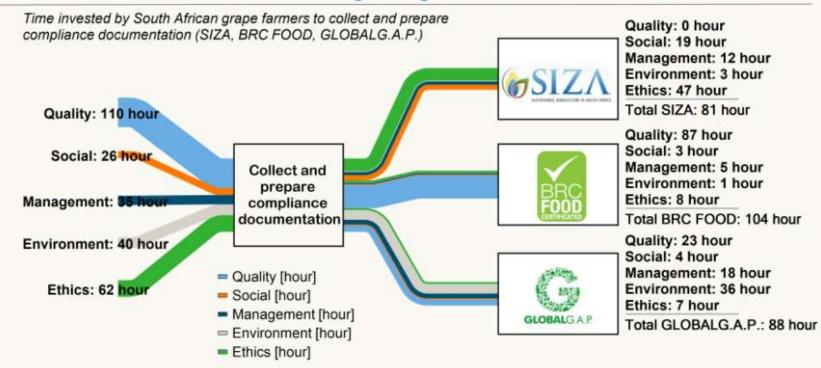
Sources to access compliance information





Use Case fresh table grapes

Time invested to prepare information







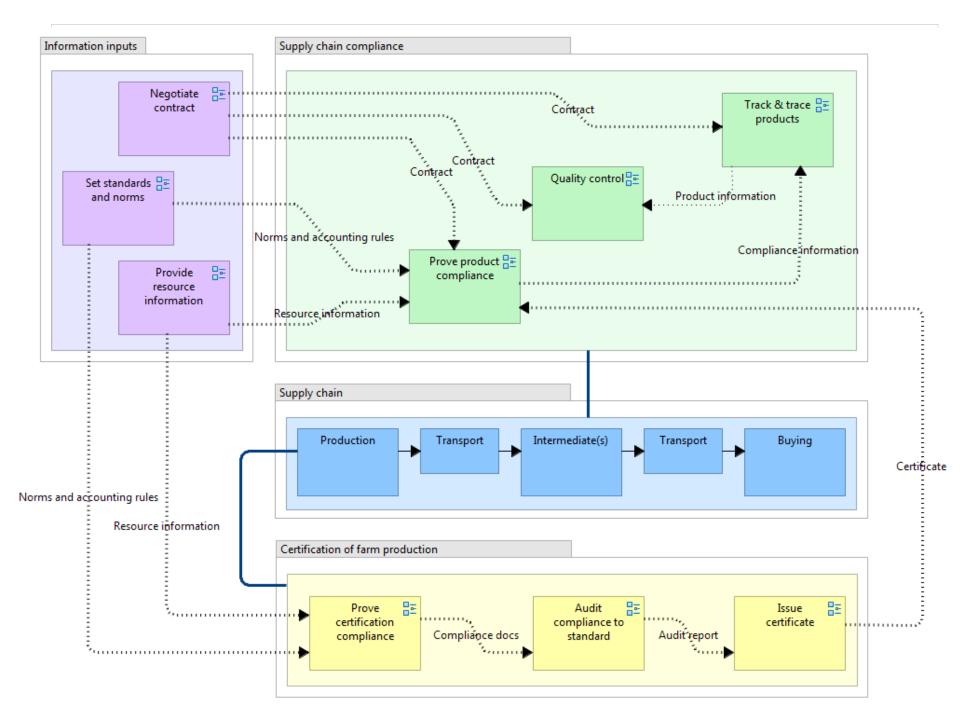


Generic Compliance Architecture

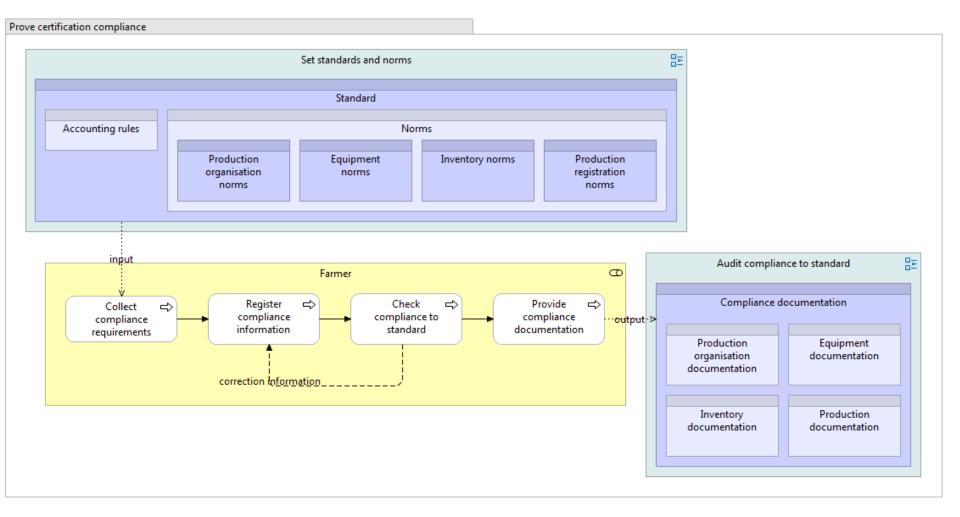
The generic compliance architecture describes actors, processes and information exchange related to compliance in agri-food supply chains.

- This generic compliance architecture is designed based on the use cases:
 - Table grapes (South-Africa)
 - Melons (Costa Rica)
 - Potatoes (The Netherlands)





Prove Certification Compliance





Website

http://www3.lei.wur.nl/farmdigital/Models.aspx



What's an Open Information Architecture?

An **Open Information Architecture** allows information (messages) to flow easily between different software systems.



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An **Open Information Architecture** allows information (messages) to flow easily between different software systems.

It describes the **information exchange** across more or less independent software systems on the **syntactical and technical levels**, against common background knowledge of the business processes to be supported.



Why develop an Open Information Architecture?

- An Open Information Architecture enables:
 - Data exchange between software systems
 - Supports alignment of software solutions with this open information architecture
 - Contribute to a more efficient data exchange



Presenting the Information Architecture

- What constitutes the information Architecture:
 - A <u>Generic Compliance Architecture</u> describing Compliance including; actors, roles, business processes, information objects
 - <u>Guideline</u> to Connect to an Open Information Architecture
 - Links to standardized messages to enable data exchange



Concluding remarks

- For what can the Information Architecture be used?
 - To gain insight into the context of compliance (actors, processes, information and data)
 - To get an overview of the processes and the standards supporting the processes
 - To connect with systems of other vendors to improve data exchange
 - To enable standardized data exchange



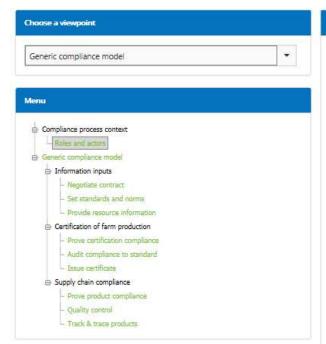
Website compliance process content

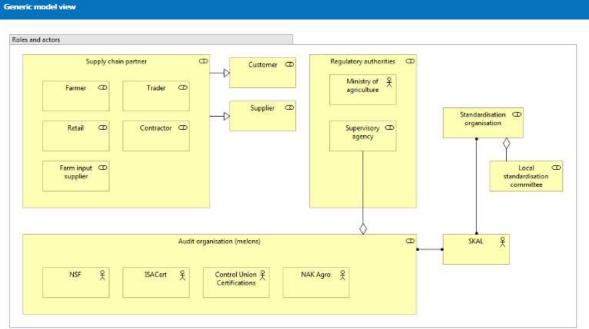


HOME

MODELS

IMPLEMENTATION GUIDELINES







Website Generic compliance model



MODEL5 Choose a viewpoint Generic model view Generic compliance model Information inputs Supply chain compliance Negotiate Track & trace contract Contract products Compliance process context - Roles and actors Quality control Set standards 🔀 @ Generic compliance model and norms Product information □ Information inputs - Negotiate contract Norms and accounting rules Product information - Set standards and norms Prove product Provide - Provide resource information resource Certification of farm production information Resource information - Prove certification compliance - Audit compliance to standard - Issue certificate - Supply chain compliance Supply chain Prove product compliance - Quality control Transport Intermediate(s) Production Transport Buying - Track & trace products Certificate Norms and accounting rules



Poll

Improving compliance processes requires improvement of data exchange between software systems

An information architecture can align software development to improve data exchange

