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## **Drivers to Driverless Agriculture**

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“...once in your life you need a doctor, a lawyer, a policeman and a preacher, but every day, three times a day, you need a farmer...”

**Brenda Schoepp**

# Drivers to driverless



Labour



Efficiency



Sustainability

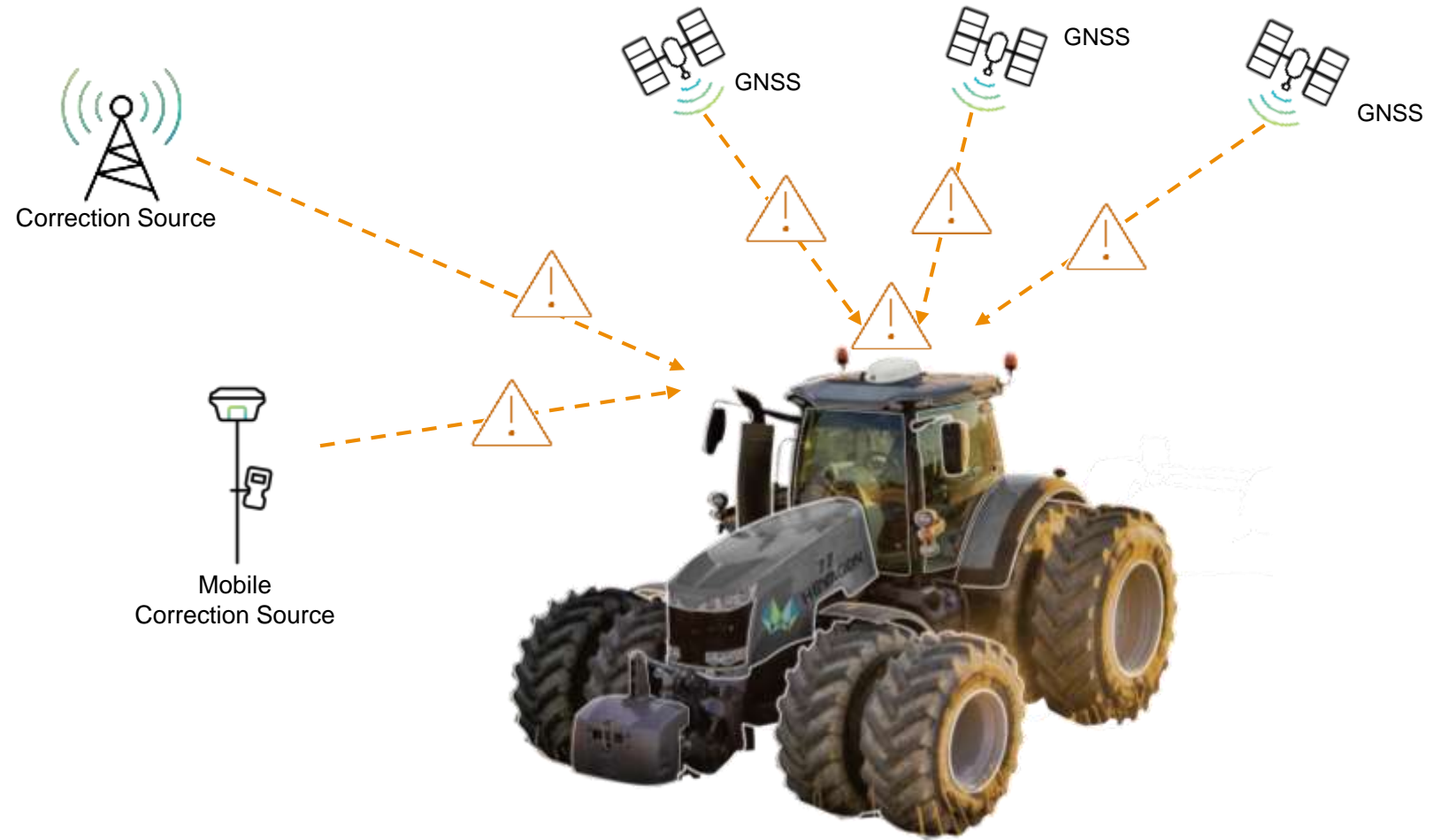


Safety

# Reliable Positioning avoiding potential points of failure

## Potential failures

- GNSS interference
- Correction source interference
- Single receiver heading errors
- Lack of redundancy



# TerraStar™ achieving safer positioning

## Precise Point Positioning (PPP)

- Global solution  
Regional atmospheric corrections
- Provides correction for all error sources
- One-way data transfer
- Redundant data streams  
ASIL = Automotive Safety Integrity Level

Global Reference Network

ASIL  
Corrections  
Dissemination  
Servers

ASIL  
Backend  
Dissemination  
Servers



Technology & Function	Implementation	Convergence	Task Position	Safe Position	Availability
PPP	Corrects for environment Fast	18 min <1 min	2.5 cm	1 m	Global

# Expanding Perception positioning beyond the vehicle

## Identifying risks in field

- Operator Assistance  
Detect people near the vehicle
- Intelligent Perception  
Reducing false positives





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