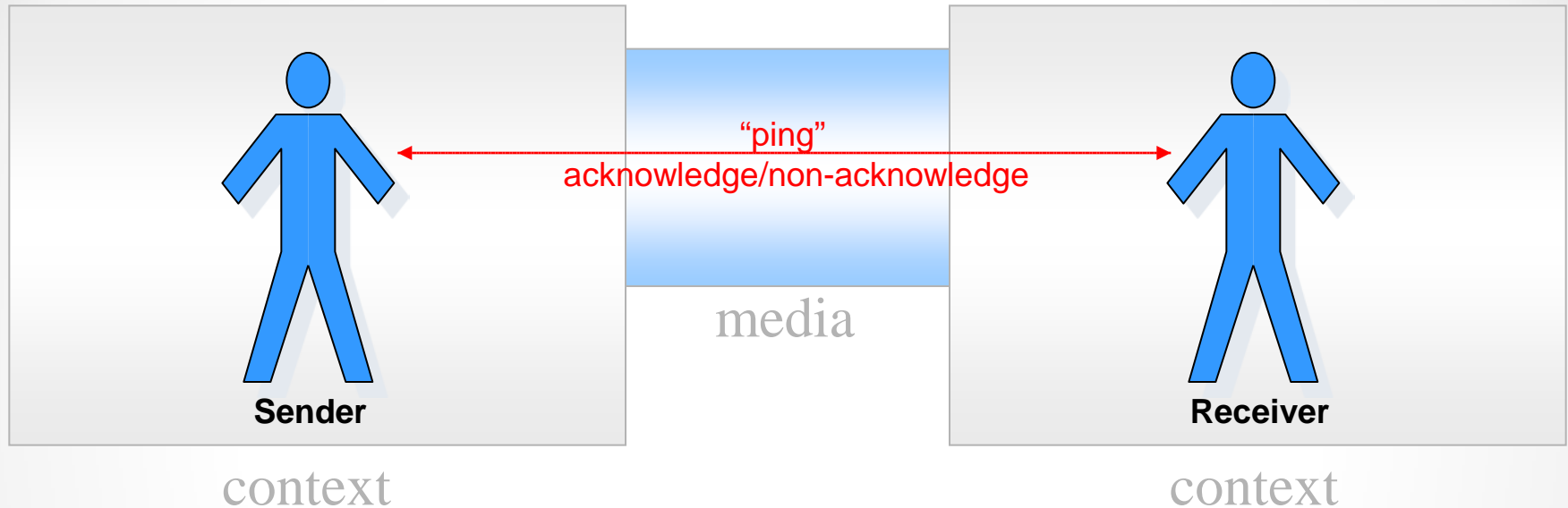


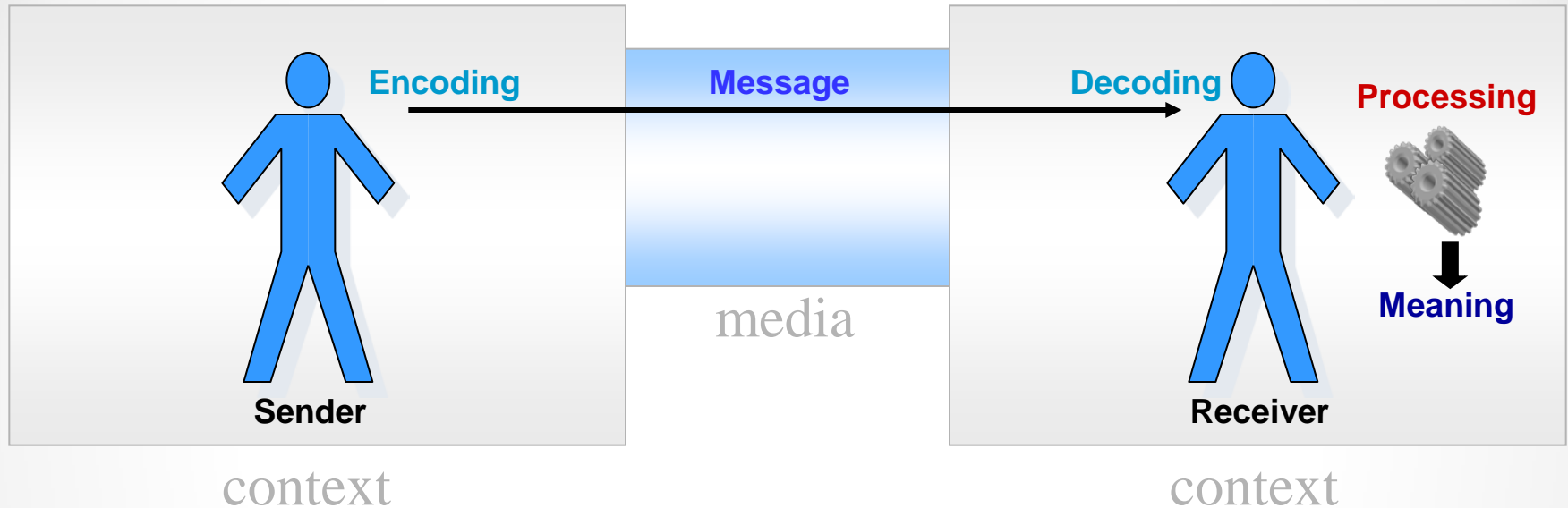
# Message Over Medium: Communication Loops in the CMMI

# Elements of Communication

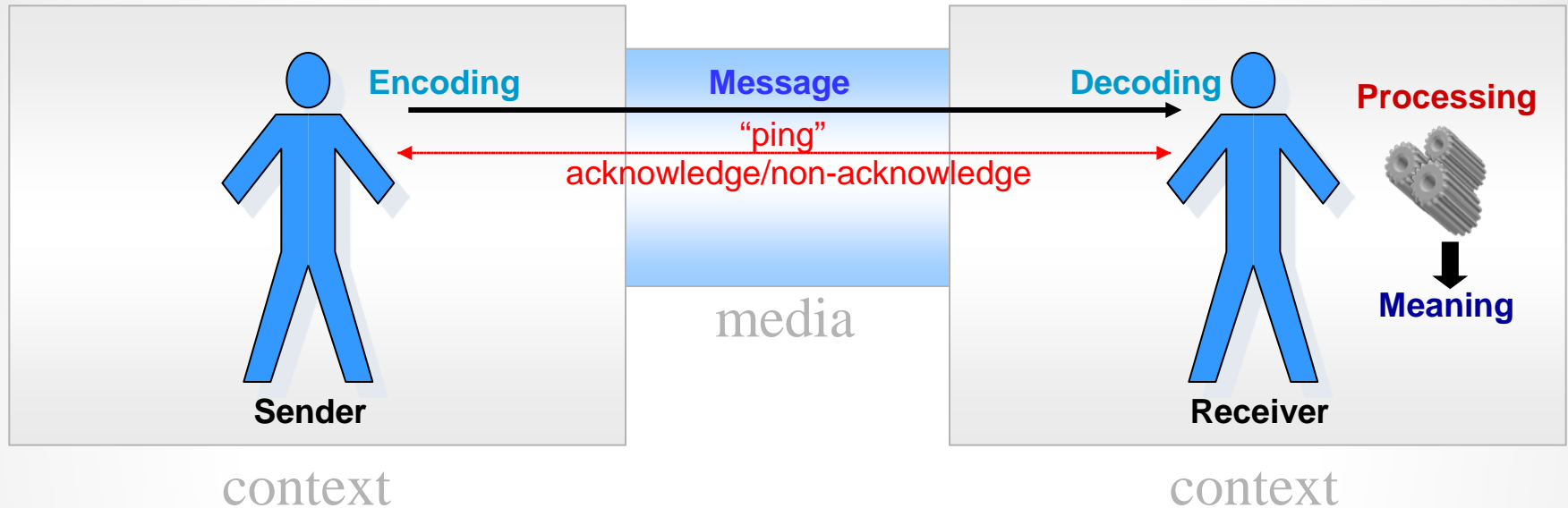
# Elements of Communication



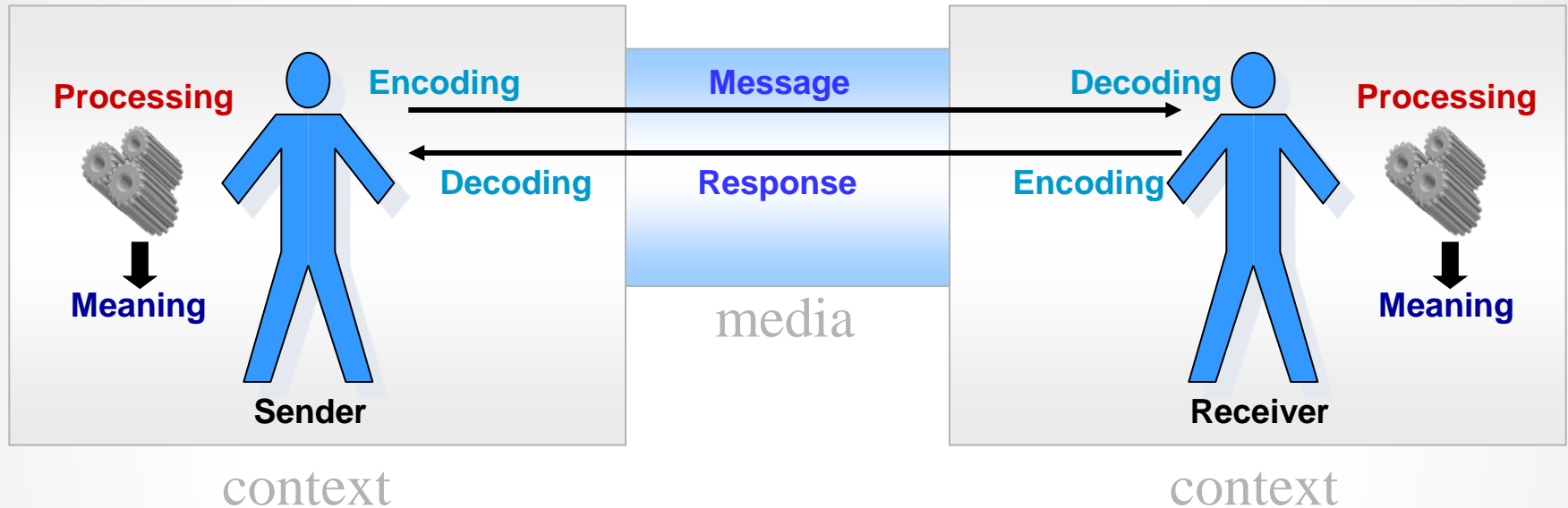
# Elements of Communication



# Elements of Communication



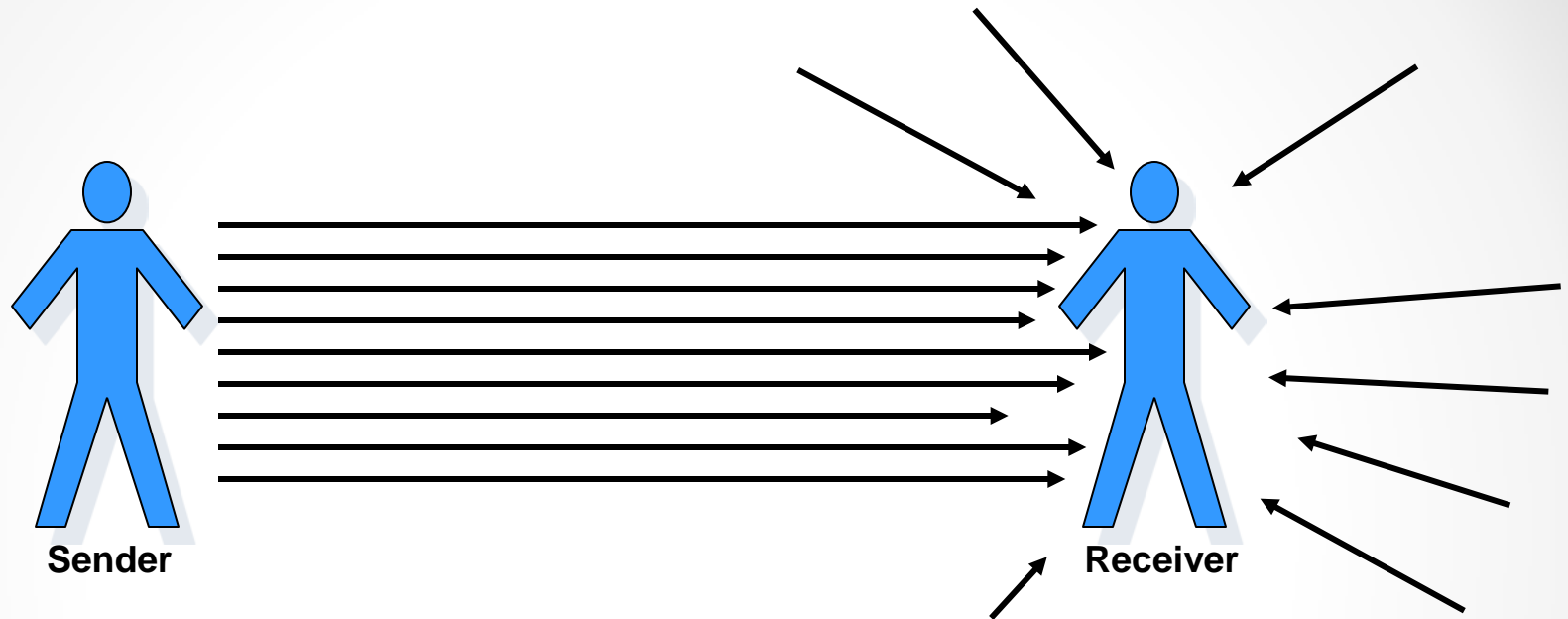
# Elements of Communication



# Elements Summary

- ⚡ Sender
- ⚡ Receiver
- ⚡ “Handshaking”
- ⚡ Medium
- ⚡ Message
- ⚡ Contexts
- ⚡ Meaning

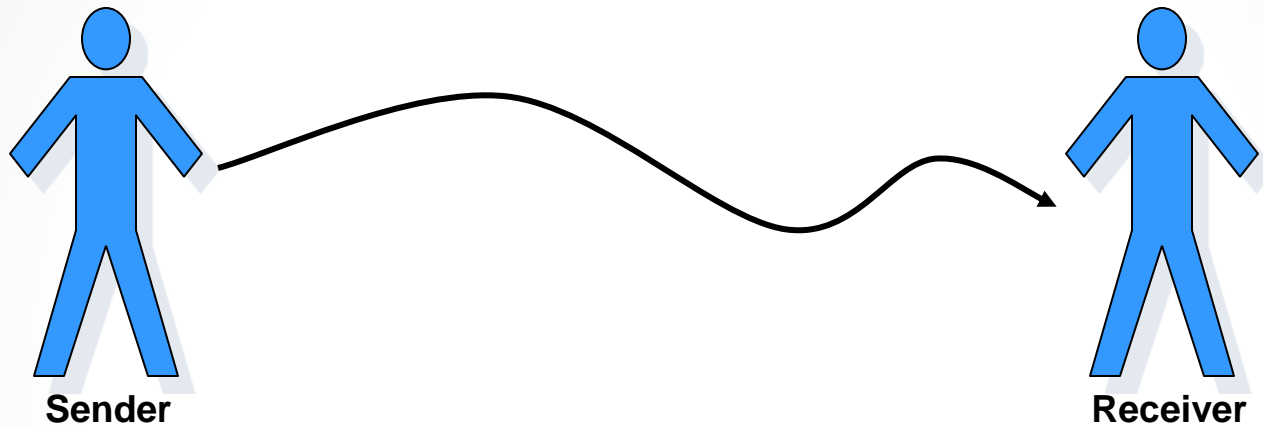
# Noise via Overload



- ⚡ Unfiltered communication
- ⚡ Environmental factors
- ⚡ Input Selection challenges

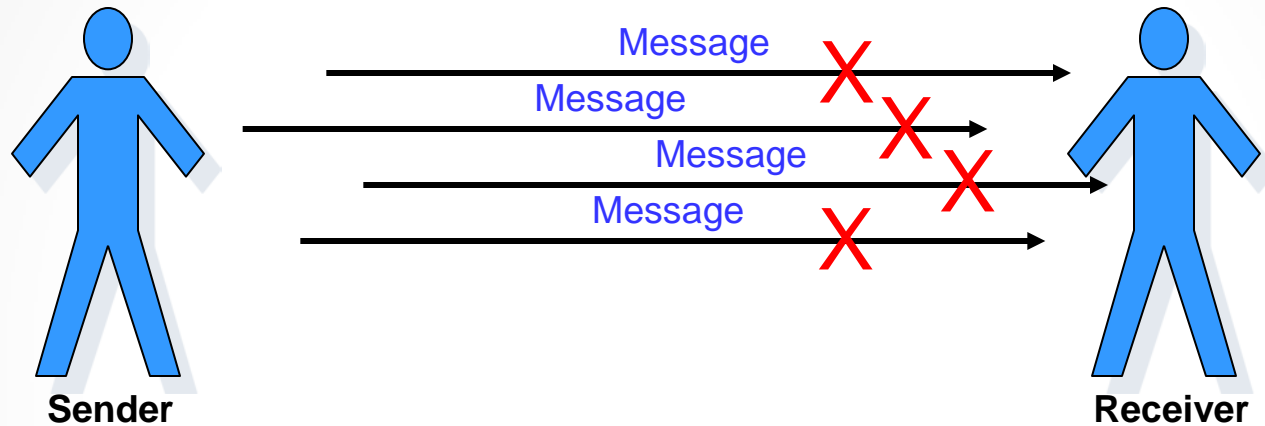


# Noise via Distortion



- ⚡ Medium unreliability distorts or redacts
- ⚡ Faulty encoding/decoding
- ⚡ Context mismatch
- ⚡ Synchronization issues

# Noise via Mixed Messages



🔥 Mixed Messages

# Noise Summary

 Overload

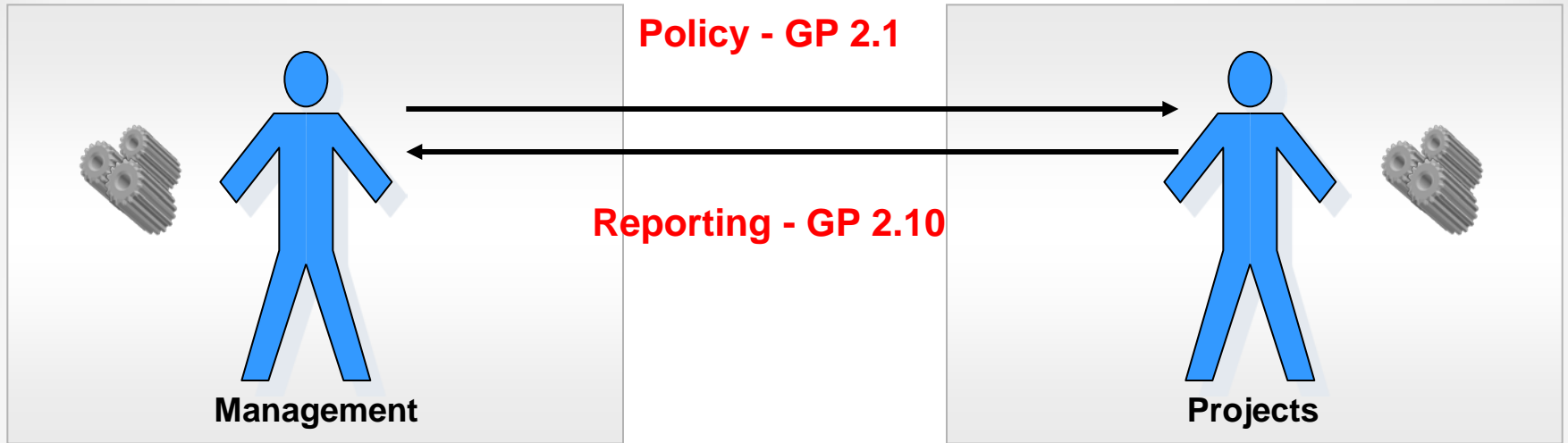
 Distortion

- Medium unreliability
- Faulty encoding/decoding
- Context mismatch
- Synchronization issues

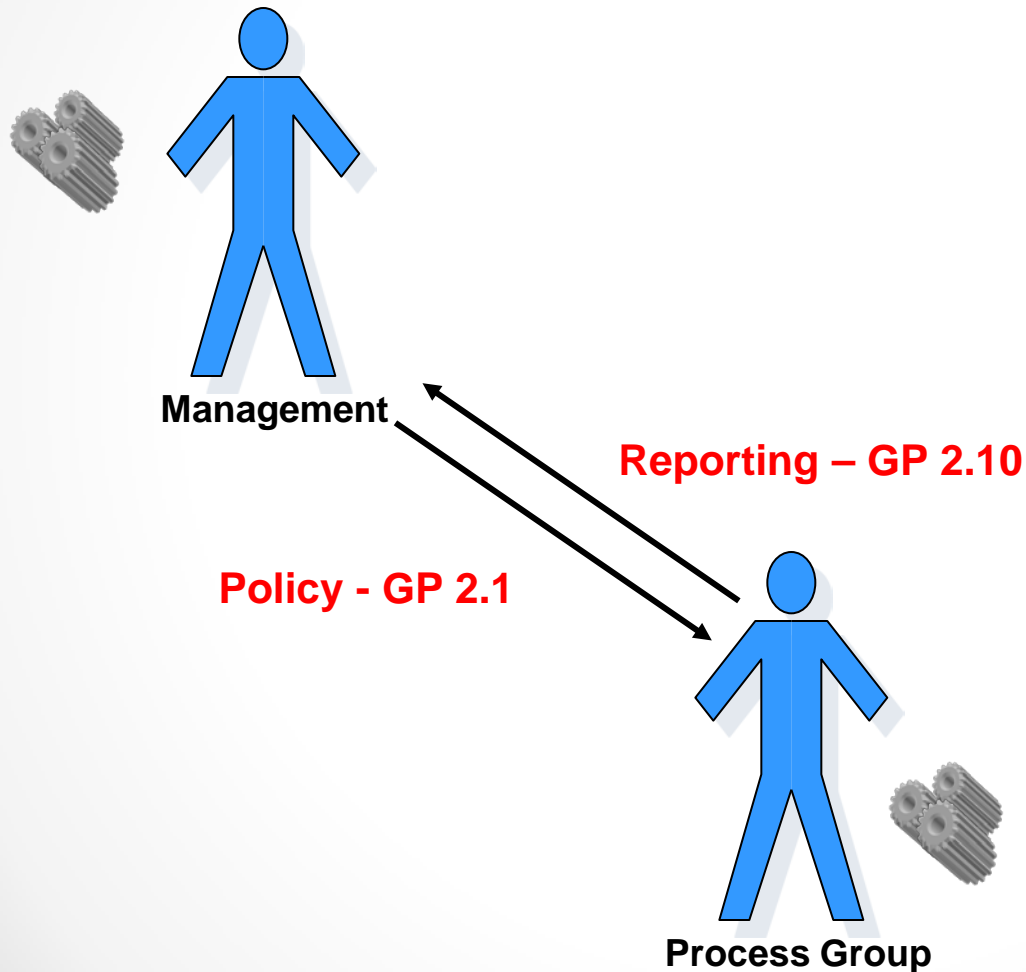
 Mixed Messages

# Communication Loops in The Generic Practices

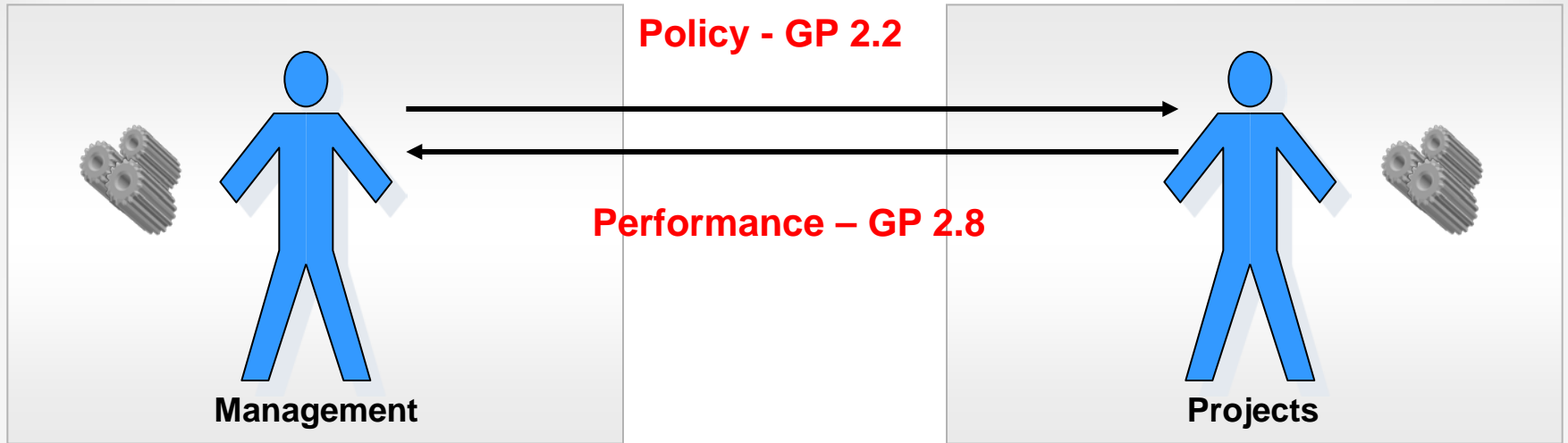
# Loop – Policy and Reporting



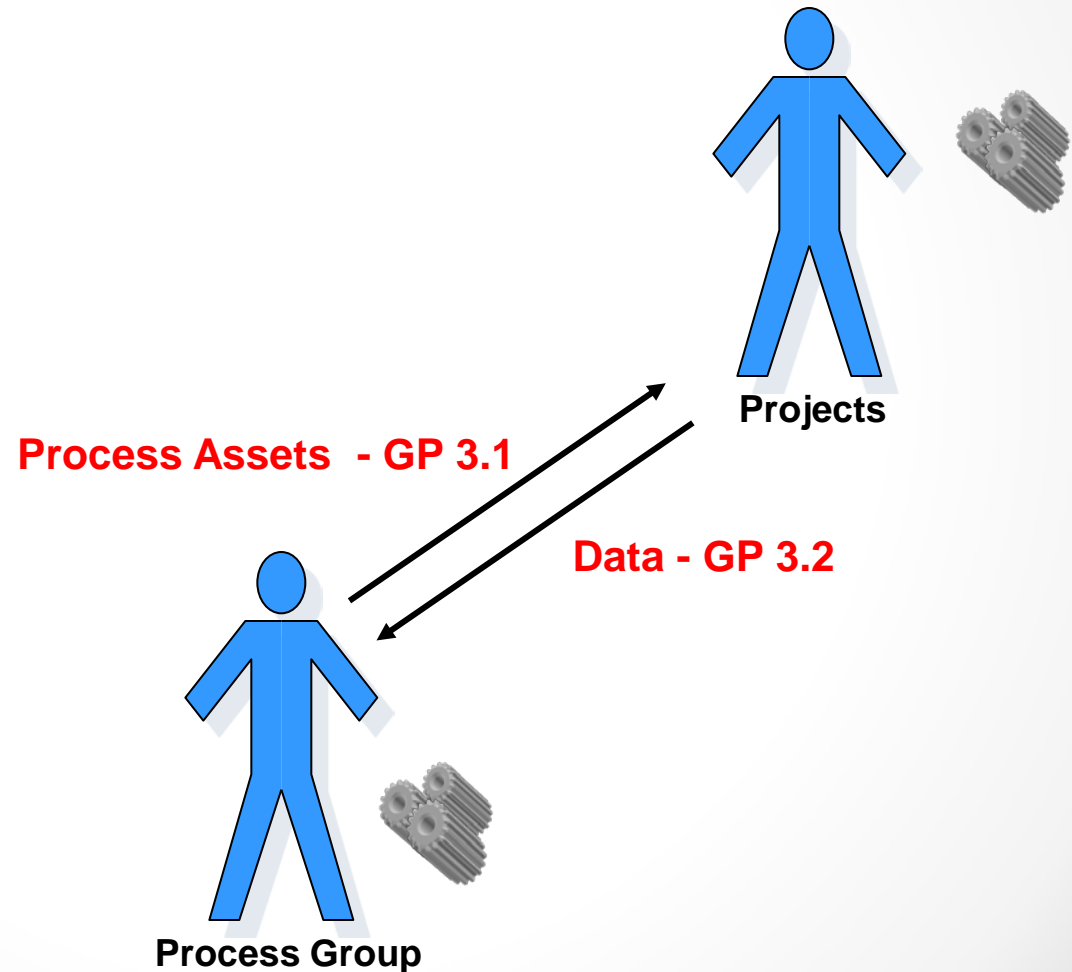
# Policy and Reporting - SEPG



# Loop – Planning and Performance

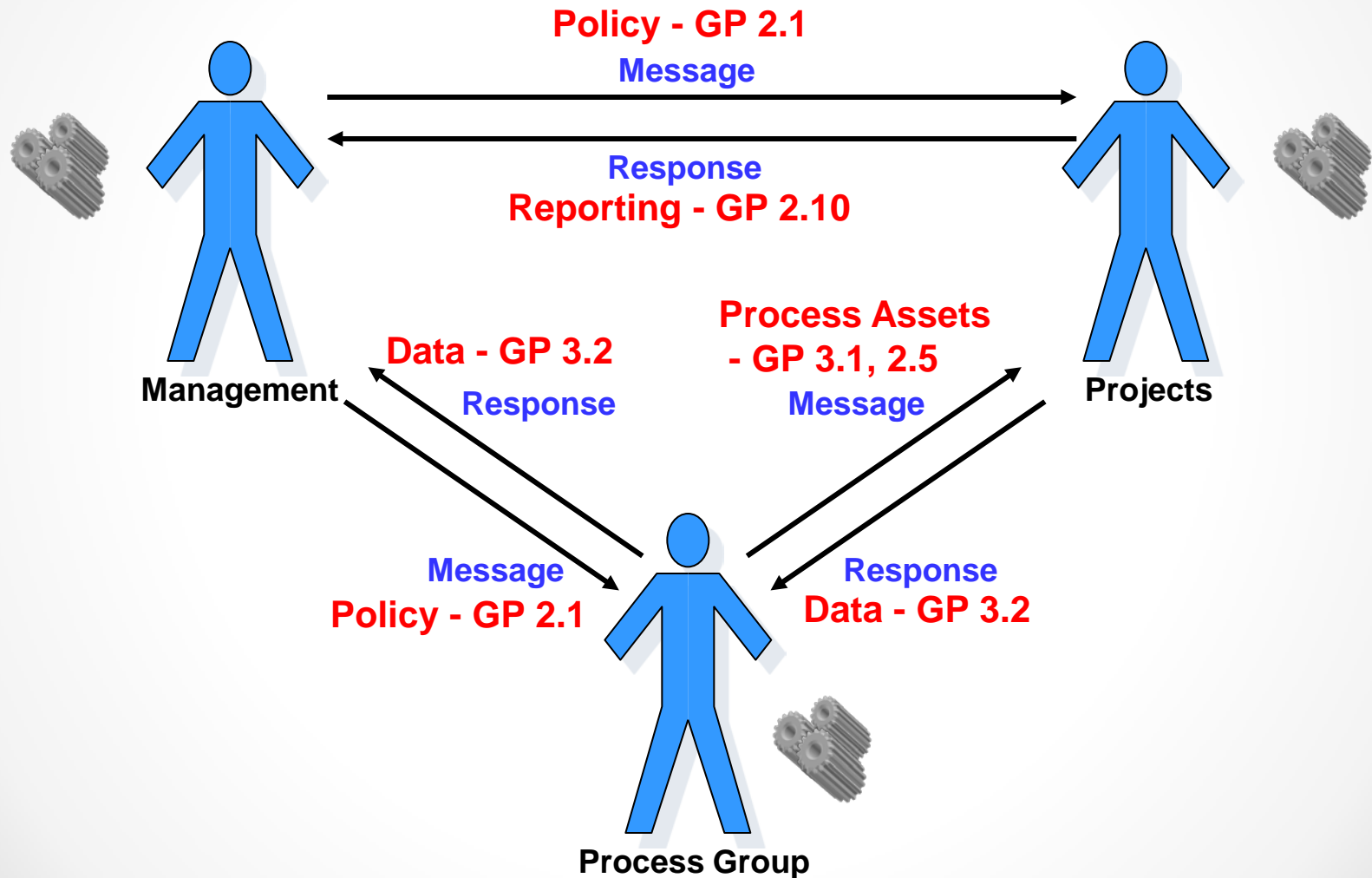


# Process Communication

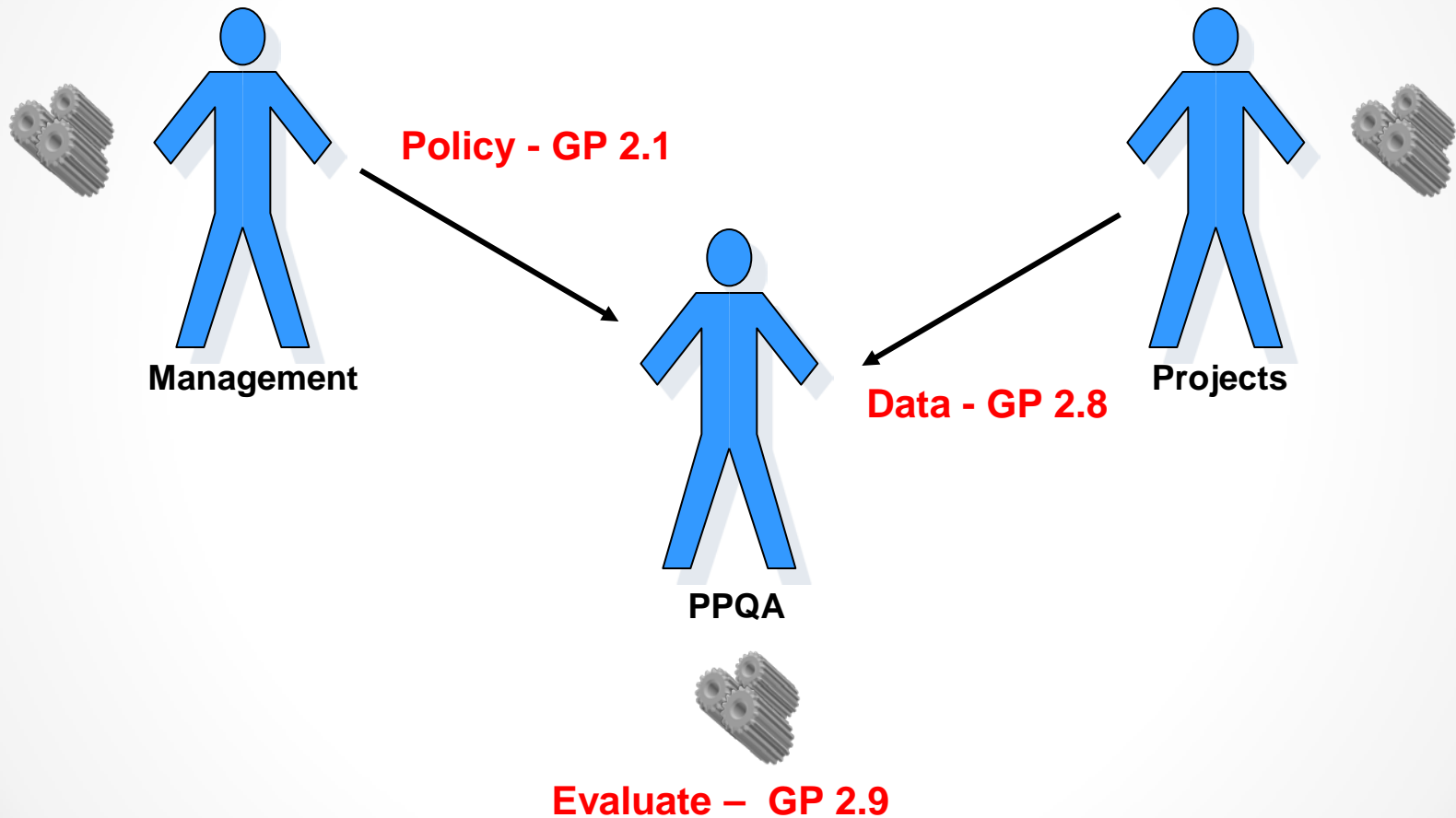




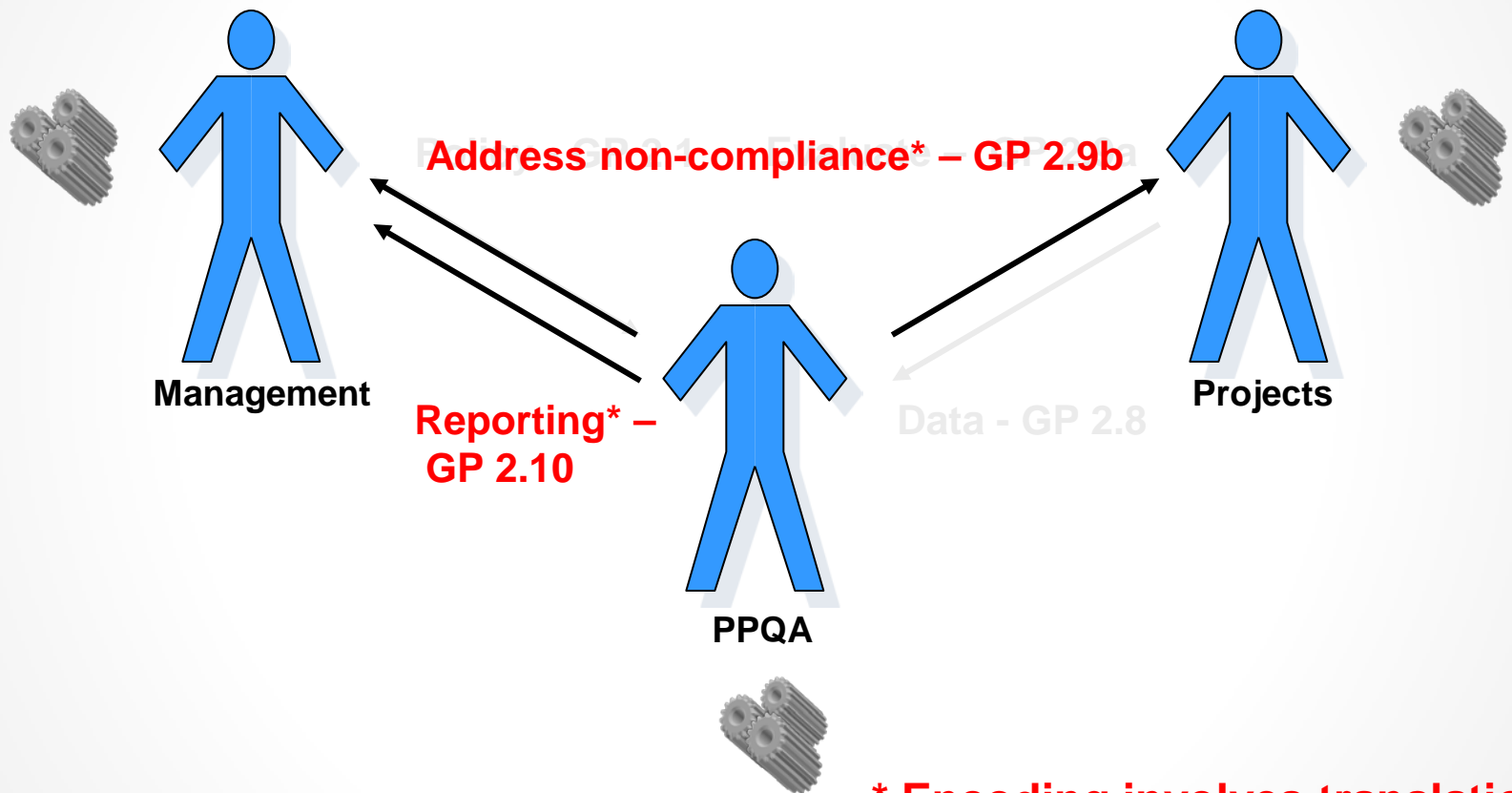
# Multi-Level Communication



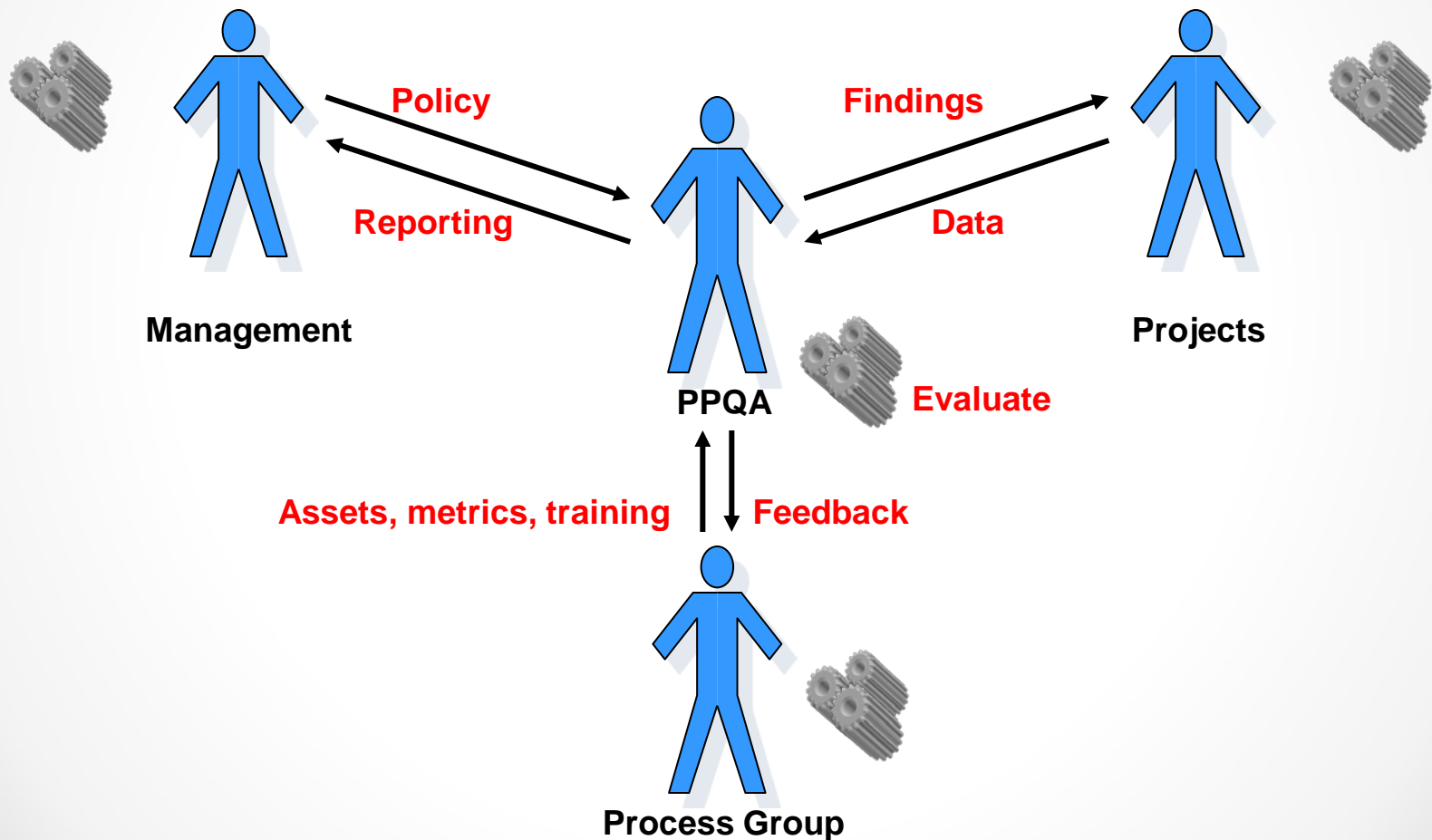
# Objective Evaluation



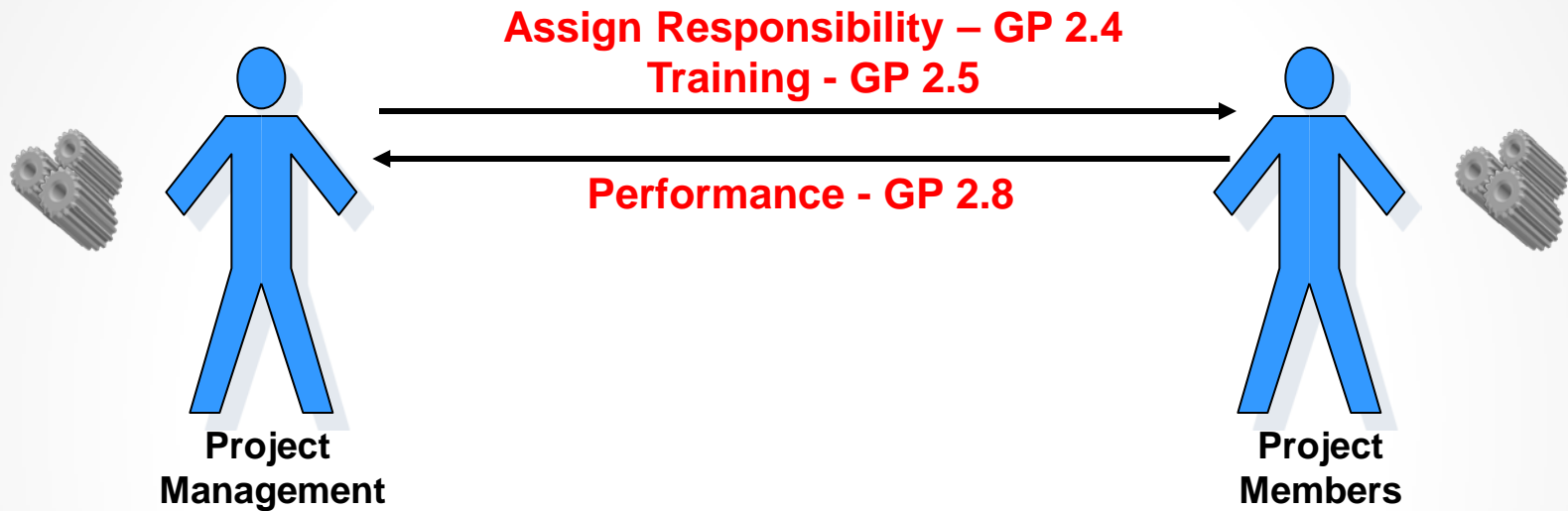
# Adherence



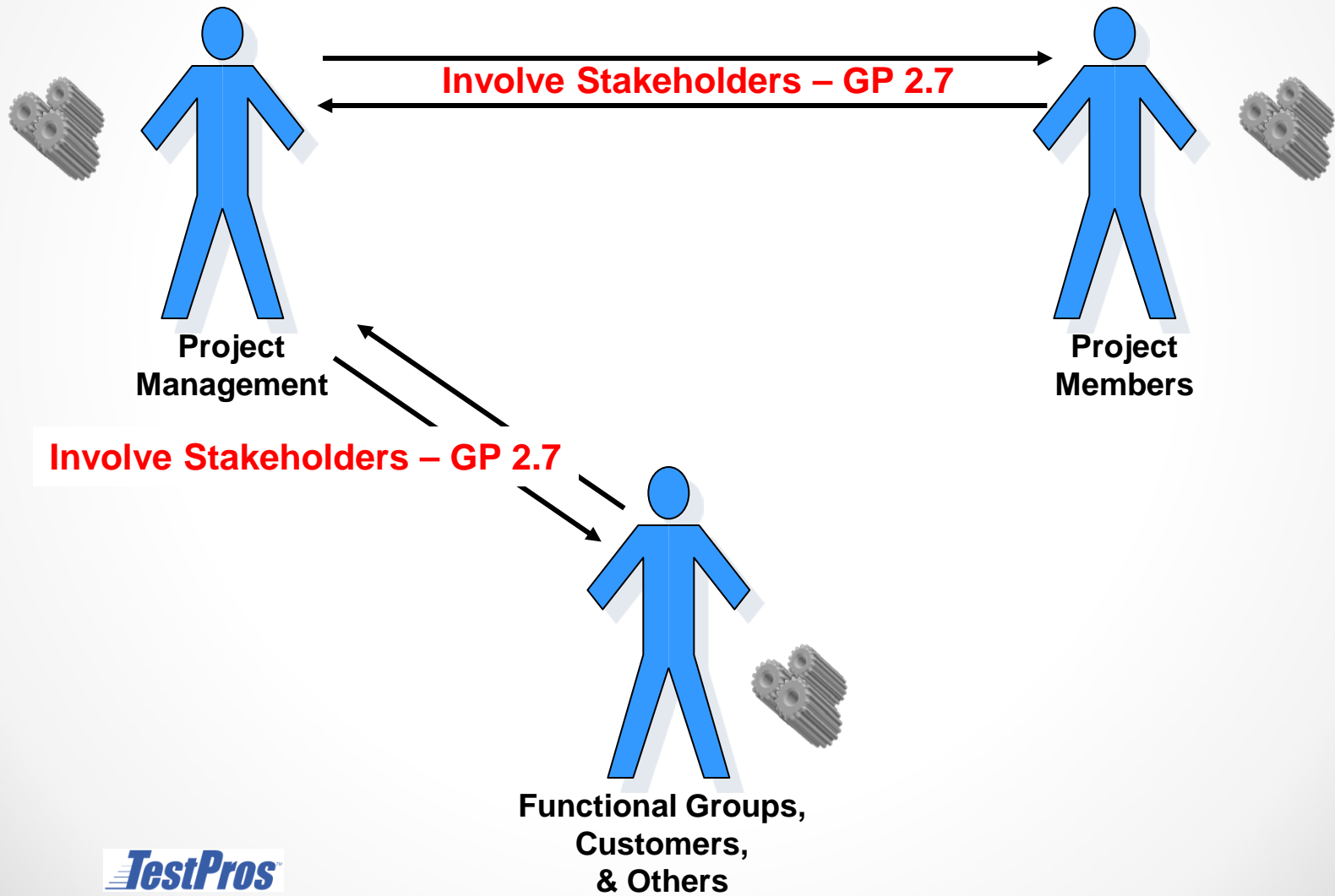
# Reporting



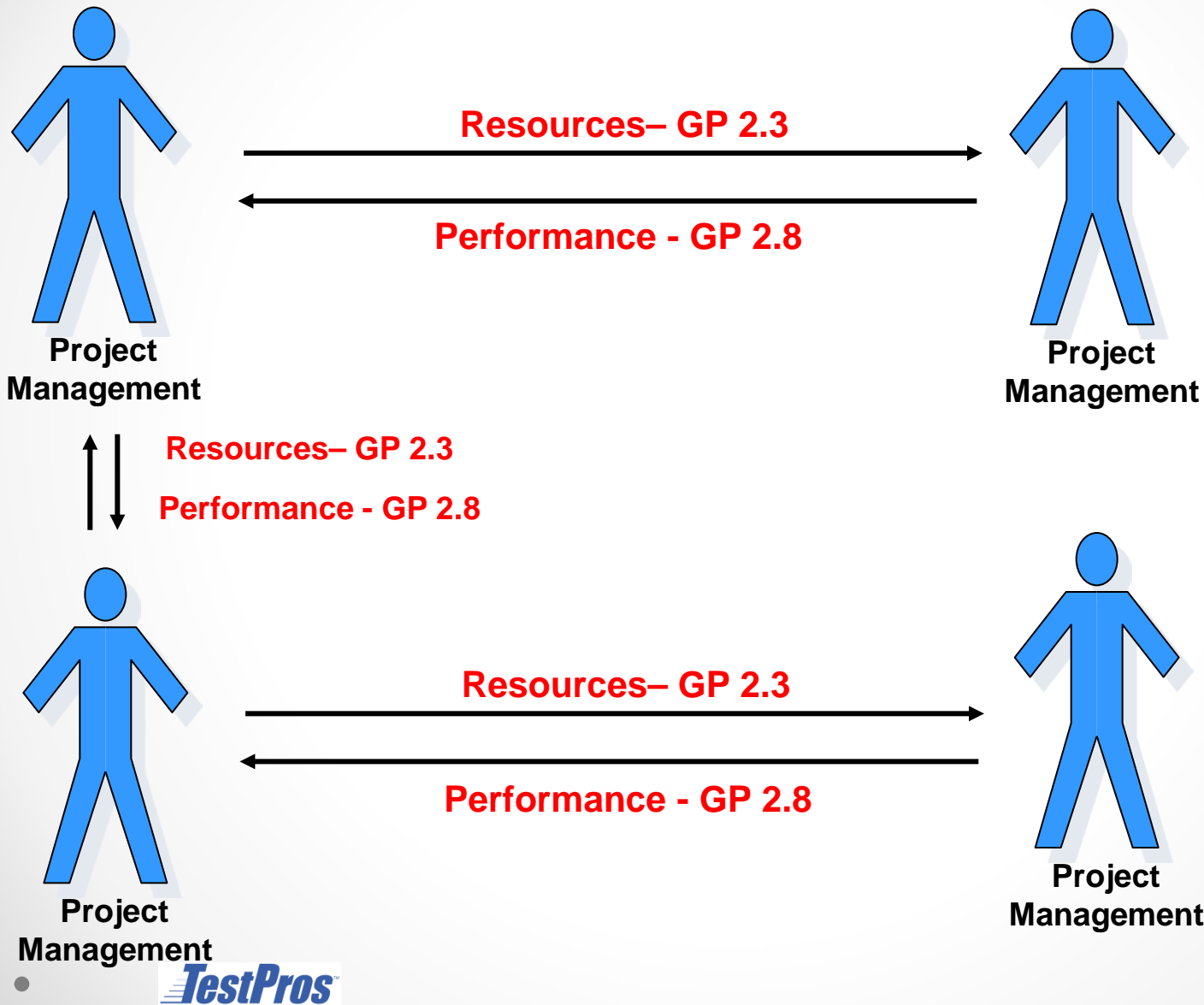
# Skills and Responsibilities



# Stakeholders



# Tools and Resources



# Specific Practices (Very Briefly)

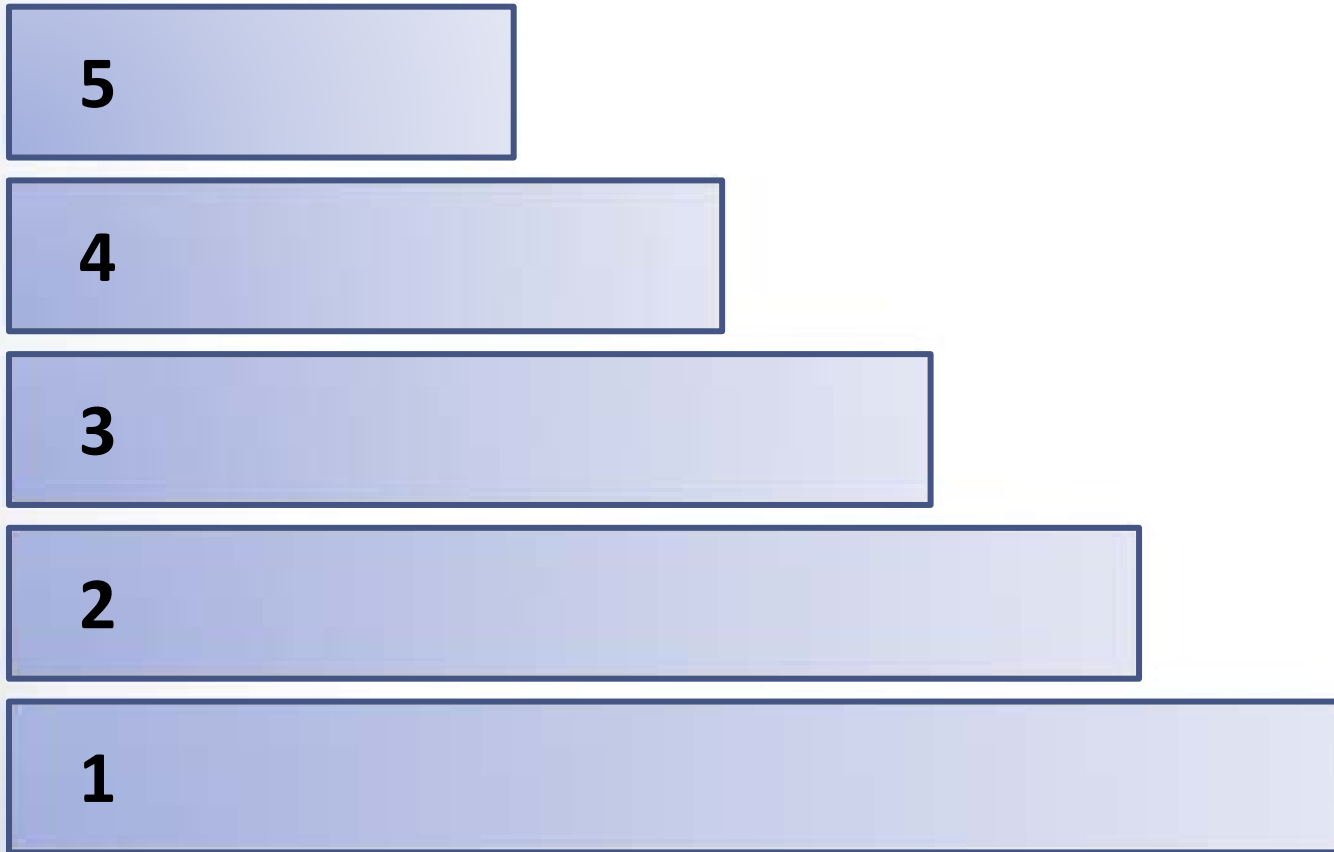


# Specific Practice Examples

- ✚ DAR.SP1.6 Select Solutions “Document and communicate to relevant stakeholders the results and rationale for the recommended solution.”
- ✚ IPM.SP2.3 Resolve Coordination Issues “Communicate issues to relevant stakeholders.”
- ✚ MA.SP1.4 Specify how measurement data are analyzed and communicated; SP2.4 Communicate Results
- ✚ OPF.SP3.1 “...deployment of process assets include...identifying how changes to organizational process assets are communicated.”
- ✚ OPM.SP1.1 “quality and process performance objectives may need to be created or maintained and re-communicated.”
- ✚ PMC.SP.3.1 Monitor Project Risks “Communicate the risk status to relevant stakeholders.”
- ✚ PPQA.SP.2.1 Communicate and Resolve Noncompliance Issues
- ✚ RD.SP.3.2 Establish a Definition of Required Functionality and Quality Attributes “This functional description...communicates the manner in which the product will be used.”

# Insights and Issues

# Communications and Maturity Levels



# Issues with CMMI Application

- ⚡ Typical Noisy Errors
  - Confusing the model with process
  - Neglecting the bottom line
  - Compartmentalization of improvement efforts
  - Maturity Level Mandates
- ⚡ Common consequence: inability to measure and discuss impact of changes (empty communication)
- ⚡ Usual Outcome: using the documentation (medium) as indicators of success

# How Issues Arise

- ⚡ Encoding, decoding, context issues often are intangible
- ⚡ The medium is tangible and attracts attention
- ⚡ The “medium over message” syndrome surfaces
- ⚡ Focusing on the medium can aggravate noise issues, resulting in a vicious cycle

# Solution: Focus on Communication

- ⚡ The model implies all components of communication loops
- ⚡ The model doesn't tell us specifically what we should say
- ⚡ The model does indicate what we should be able to communicate about
  - Model as prescriptive method => noise
  - Model as diagnostic => real communication loops

# Summary

- ⚡ The CMMI describes communications, both explicitly and by implication
- ⚡ Media is a critical element, but not the only one
- ⚡ The media serves the messages in communication
- ⚡ Improper focus on the media may distort or completely subvert the message
- ⚡ Understanding complete communication loops and how the CMMI relates to them preserves the critical messages