



ERP to HMI communication for increasing plant effectiveness

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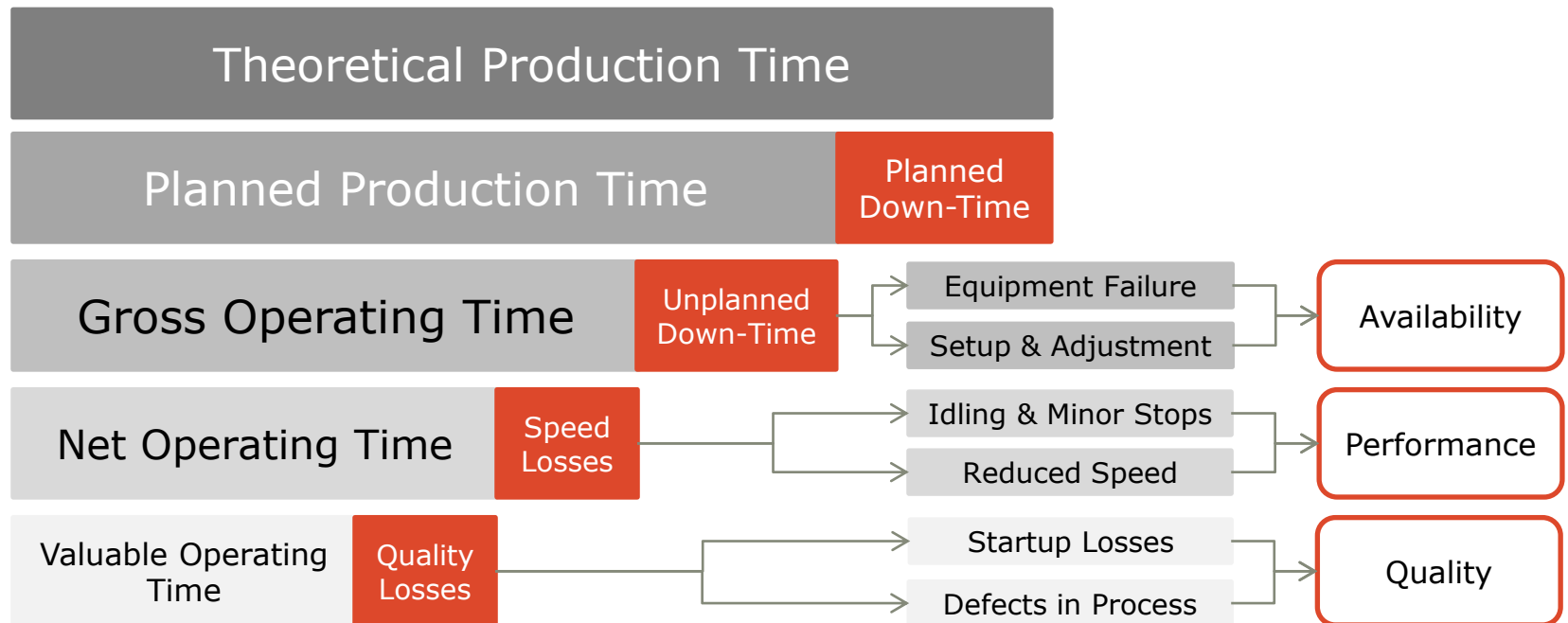
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Content

1. A challenge for the production teams
2. Solution with zenon
3. Benefits

Methodical approach of effectiveness improvement

OEE and the 6 big losses



Challenge

Help the machine operator to contribute to improved plant productivity

In order to improve OEE, it is necessary to reduce losses in productivity.

- Is the operator informed at the right time about the right actions he should take in order to reduce losses?
- Is the HMI system properly integrated into the plant infrastructure?



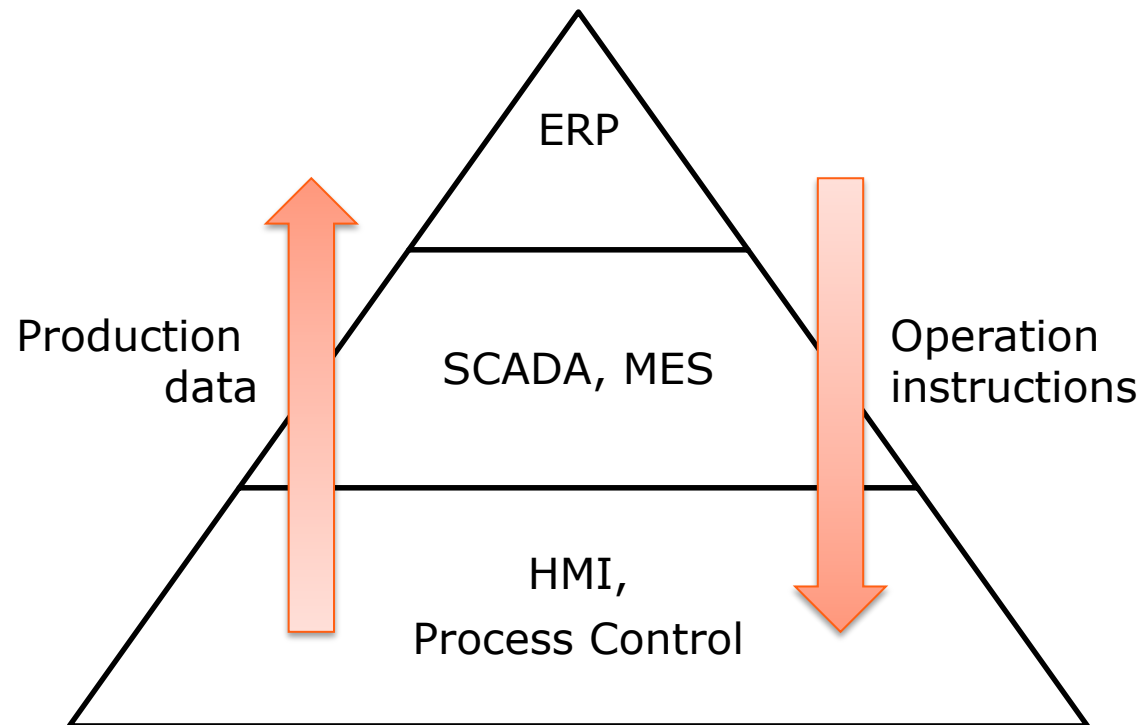
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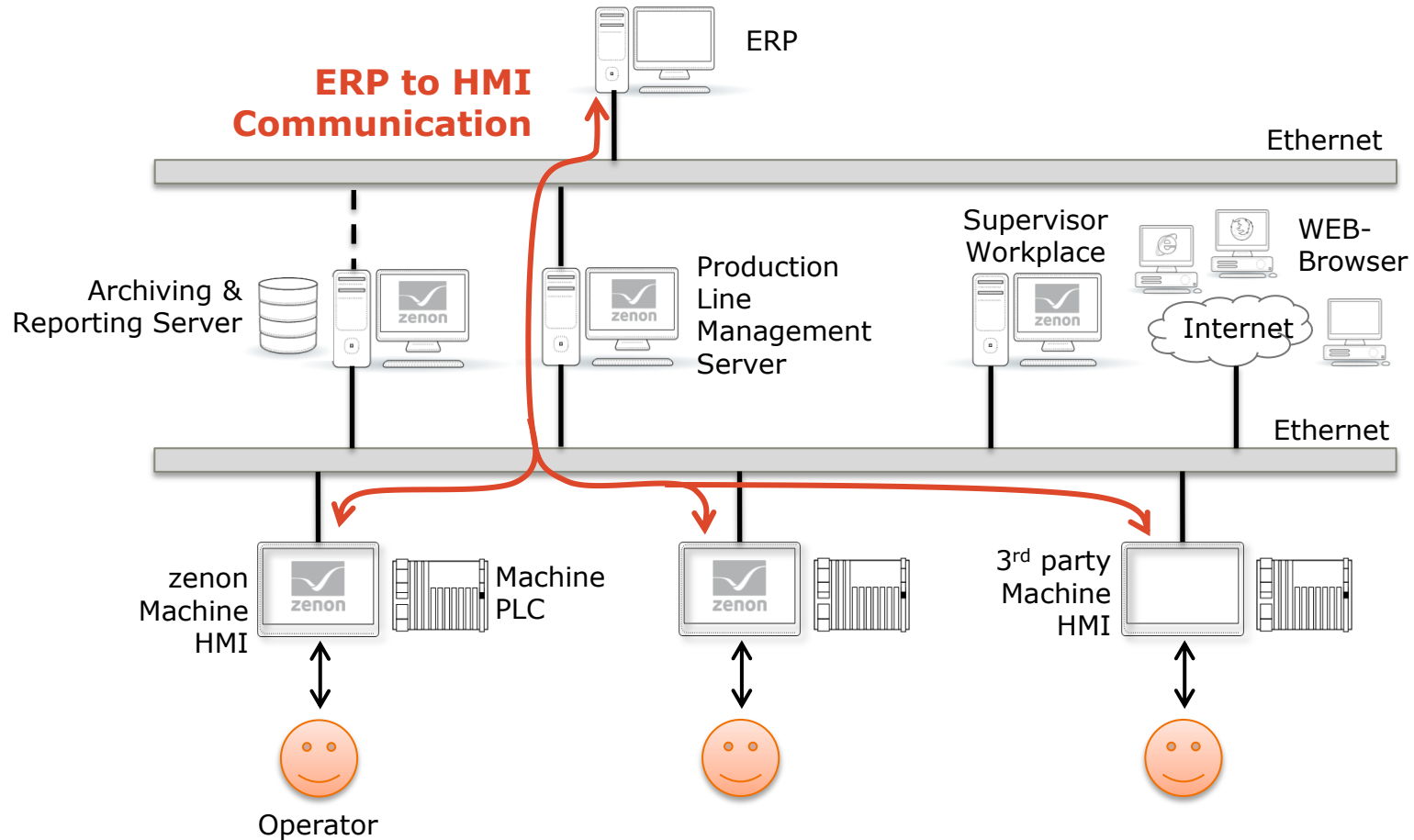
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Solution

Ensure the right communication flow across the automation pyramid



Typical solution architecture using zenon



zenon technology enables ERP to HMI communication

- ✓ Network by mouse click
- ✓ Operating System versatility
- ✓ Hardware independence
- ✓ zenon Process Gateway
- ✓ SAP Certified Interface
- ✓ Recipe Management
- ✓ >300 communication protocols

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Integration with SAP Applications



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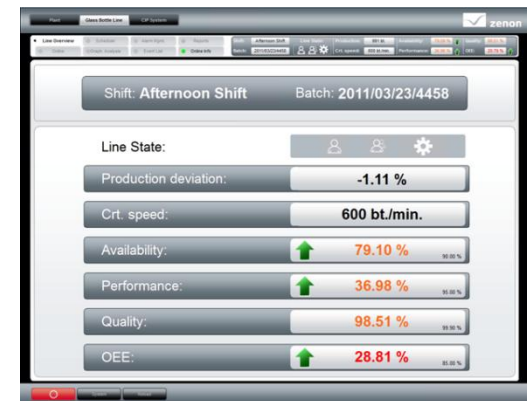
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The ERP to HMI communication

The machine operator is supported through:

- ✓ Key Performance Indicators
 - ✓ batch changeover (current and next)
 - ✓ product packaging/ labeling changeover
 - ✓ material changes
 - ✓ status of other machines
 - ✓ planned downtime, e.g. maintenance
 - ✓ Recipe Management for changeovers
- ... and many other options



Main benefit: **OEE increase**

- ✓ optimize the time spent on setup & adjustments, e.g. changeover
- ✓ accurate machine parameter control
- ✓ decreased defects in process
- ✓ decreased start-up losses
- ✓ reduced machine downtime
- ✓ increased operator involvement in achieving business targets



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presentation?

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