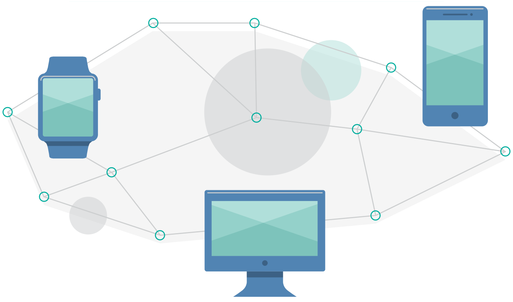
With the explosion of the Internet of Things



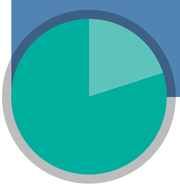
– comes potential problems:

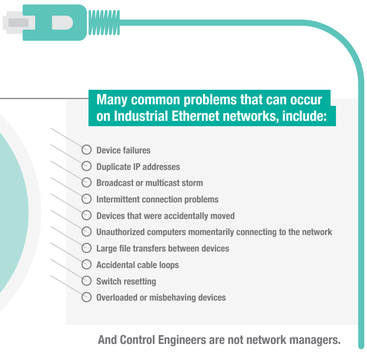
1. **More IP addresses to manage**
2. **More end points to cause system errors**
3. **More time & money lost to troubleshooting**

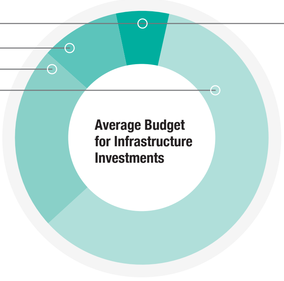
Plant Ethernet connects:

Making changes to systems and increasing system complexity result in an increased risk of a failure.[1]

Nearly **80%** of network problems are related to only **7% of invested budget.**







- **7% Cabling**
- 10% Operations
- 23% Networking
- 60% Software

Many common problems that can occur on Industrial Ethernet networks, include:

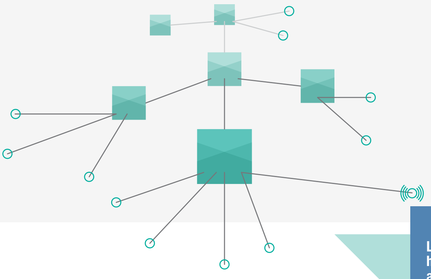
- Device failures
- Duplicate IP addresses
- Broadcast or multicast storm
- Intermittent connection problems
- Devices that were accidentally moved
- Unauthorized computers momentarily connecting to the network
- Large file transfers between devices
- Accidental cable loops
- Switch resetting
- Overloaded or misbehaving devices

And Control Engineers are not network managers.

So what's the solution?

1. **Simplify detection**
2. **Automate diagnosis**
3. **Speed resolution**

– by using the IntraVUE™ Visualiztion & Analytics.



Live visual display of how all your systems are connected.

Benefits:

Real time monitoring & troubleshooting of all Ethernet connections.

Reduced downtime by quickly identifying the problem affecting the network.

Increasing Overall Equipment Effectiveness (OEE) allows field technicians to effectively communicate with IT and automation teams and overcome knowledge gaps around network and machinery performance.

Conclusion

- **Document & visualize your plant's entire Ethernet connectivity landscape**
- **Narrow the scope of where connectivity issues are occurring**
- **Quickly identify & troubleshoot the root of the problem**
- **Improve uptime & decrease network support costs & response times**

[1] How Complex Systems Fail, web.mit.edu

Learn more at **www.Panduit.com/IntraVUE**

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