

A RENAISSANCE IN THE INDUSTRY IS UNDERWAY

Manufacturing is back and booming after the U.S. recession. A renaissance is in full swing as plants around the country push their production capabilities and speed product to market. Even though 3 million jobs were lost when the economy tumbled, the manufacturing sector has recovered faster than the rest of the economy, creating 334,000 new jobs in 2 years!

Costs are down, productivity is up, and technology is becoming more automated and advanced. As the industry confronts these realities — and hires a new generation of workers with different skills and expectations — manufacturers must reinvent the way they create and innovate.

50%
OF
MANUFACTURERS
PLAN TO INCREASE
PRODUCTION

#10 U.S. MANUFACTURING AS A WORLD ECONOMY

TRILLION U.S. GOODS PRODUCED IN 2013

OVERCOME CHALLENGES BY INTEGRATING PLANT COMMUNICATIONS

Manufacturers face another set of challenges in this rebounding market. More companies are shifting from outsourcing overseas to "next shoring" their products closer to where they are sold to improve efficiencies. And consumers, emboldened by social media, expect instant gratification and faster delivery times.⁵

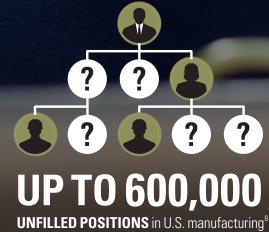
Whether it is filling job positions or filling customer orders, manufacturers need strategies to stay competitive. According to the 2015 Motorola Nationwide Manufacturing Survey, companies are looking for an integrated communications platform to help them increase workforce productivity, improve worker safety and reduce downtime. They want plant communications to connect all workers and devices seamlessly, and expedite communications between machines and people automatically.



manufacturers have a SERIOUS SHORTAGE of skilled resources

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MOTOTRBO DIGITAL COMMUNICATIONS OPTIMIZE PRODUCTION WITH SEAMLESS COLLABORATION

The backbone of integrated plant communications is the MOTOTRBO digital two-way radio platform. This complete, flexible and adaptable solution includes two-way digital radios, accessories, applications, systems and support services. MOTOTRBO interconnects personnel and equipment to help plants streamline production, automate processes, manage risk and respond to customers quickly.

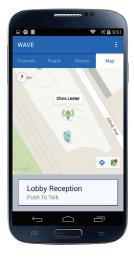
MOTOTRBO seamlessly integrates voice, data, text messaging and GPS to help resolve equipment issues and reduce unplanned downtime faster. Employees communicate and collaborate more efficiently and effectively, wherever they work. All while protecting their safety and enhancing overall productivity.

WAVE™ WORK GROUP COMMUNICATIONS CONNECT ANY WORKER ON ANY DEVICE, ANYWHERE

Leverage the resources you already have to communicate with employees on their own devices. WAVE extends your radio's reach to those who may not carry radios. Now, the IT director at a convention or the supervisor away from the plant can talk on their smart phones with radio users at the plant.

WAVE connects to virtually any device — smart phones, laptops, tablets, and landlines — on any public or private mobile data network, including Wi-Fi. You get seamless and secure connectivity, affordable push-to-talk, and the freedom to keep service plans and devices.





ALARM AND CONTROL SYSTEMS INCREASE UPTIME WITH PROACTIVE ALERTS

Connect your production line directly to your people. Alarm and Control systems allow you to see the status of your machines directly on your radio.

By monitoring manufacturing environments and proactively notifying key personnel of faults and potential issues, the right information is delivered to the right person at the right time. Problems can be prevented and unplanned downtime averted.

WHAT MANUFACTURERS ARE SAYING

52% WANT REAL-TIME MESSAGING BETWEEN MACHINES AND PEOPLE⁹
30% WANT SCADA SYSTEMS TO CONNECT WORKERS AND PLANT EQUIPMENT
46% SAY DIGITAL RADIOS CAN REDUCE DOWNTIME 10 TO 20%



MOTOTRBO INTEGRATES IT ALL SO YOU SPEED AHEAD



In the plant, a technician uses a rugged MOTOTRBO XPR 7550 radio, certified for hazardous locations.



On the noisy production line, he wears an **XBT wireless headset** to work hands-free while protecting his hearing.



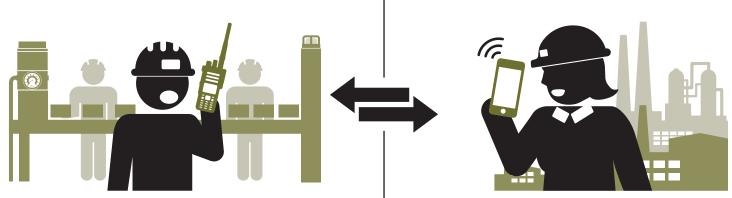
He receives a **text message** on his radio from the factory **Alarm and Control System** signaling low oil pressure in one of the machines.



When he goes to fetch oil, the **MOTOTRBO Indoor Location system** senses he is in a hazardous area and activates **Lone Worker** on his radio.



If he does not respond to periodic alerts, the system will send an **Emergency Alarm** to the factory response team.



Seeing a potential safety hazard, he uses his **XPR 7550 radio** to connect to the plant manager, who is away on business.

She communicates with him using the **WAVE Mobile Communicator** on her smartphone to resolve the issue before it causes downtime.



SOURCES

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- 5. Manufacturing Trends that will Shape the Market in 2015, www.businessweek.com, November 14, 2014
- 7. Costs of Downtime in the Manufacturing Industry, eMaint Enterprises, December 2014
- 8. The Future of Manufacturing Report, IDC, February 2014
- 9. Motorola Solutions 2015 Study: Innovations in Plant Communications

To increase your efficiency, productivity and safety, visit www.motorolasolutions.com/manufacturing

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