

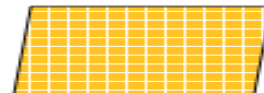
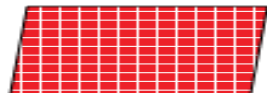
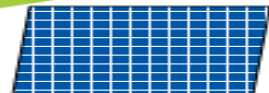
# How to Get the Most Productivity From Your Crews

## The Importance of Pre-Planning Projects



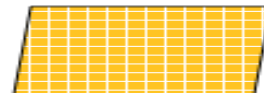
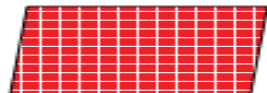
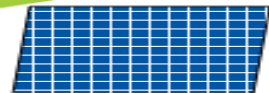
# Improve Field Productivity

- What are the challenges?



# Technology Challenges

- Aging Experienced Field Leaders NOT Tech Savvy
- Office Person To Coordinate/Manage Field App Access, App Distribution, App Updates, Passwords, Etc.
- Apple – Android Compatibility
- Wi-Fi, Cell Reception
- Integration With Other Office Accounting Or Construction Management Software
- Needing Trained Field Supervisors In General Contractors Field Construction Management Software (ie. Procore)



# Improve Field Productivity

Study of 1200 projects found  
Major Change in 35% of  
Construction Projects

## Impacts of Changes:

- Delayed Completion
- Inefficient work
- Material Delays
- Out of Sequence Work
- Acceleration of Work

These Changes Cost 80% or more of the Original Project Value



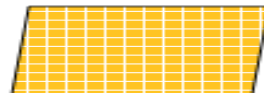
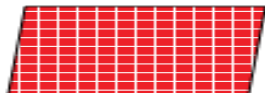
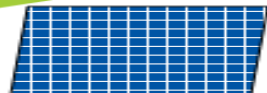
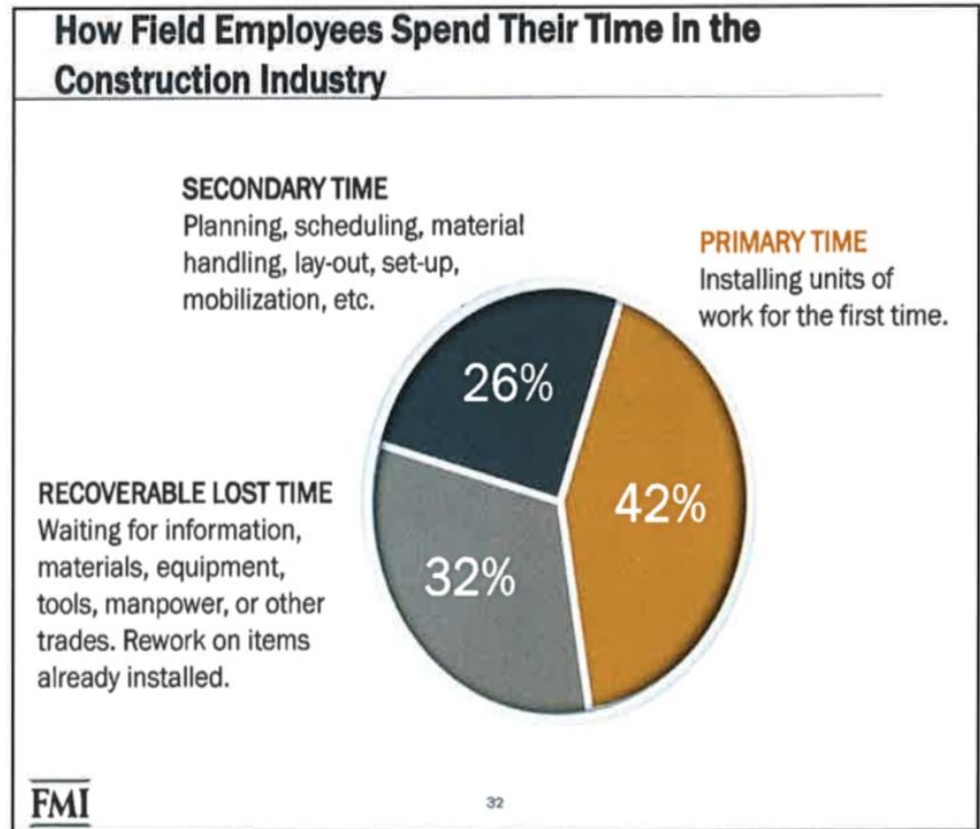
# Improve Field Productivity

Recoverable Lost Time = 2.5 Hours/Day  
150 Min/Day

5% Improvement = 24 Min/Day

10% Improvement = 48 Min/Day

- Projects Completed Faster
- Project Costs Reduced
- Allows More Competitive Bids
- Overall Projects More Profitable
- Productivity is at 60 Year Low



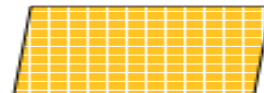
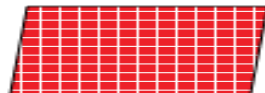
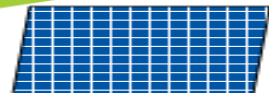


**Pre-Planning the Work  
Turn-Over Meetings**



# Improve Field Productivity – Pre-Planning Work

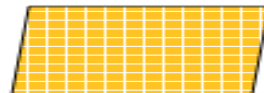
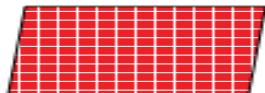
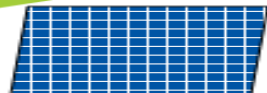
- Pre-planning
  - Submittals
  - Shop Drawings
  - Work Breakdowns
  - Productivity Goals by Area
  - Materials Secured
  - Adequate Manpower
  - Develop Workflow
- Turn-Over Meeting:
  - Management & Field Teams
  - Review Every Aspect of the Work
  - Discuss Details & Patterns
  - Discuss Best Practices
  - Review Industry Standards
  - Review Manufacturer Requirements





Pre-Planning the Work  
Turn-Over Meetings

Clearing the Path





# Improve Field Productivity – Clearing the Path

- Clearing the Path
  - Insuring Properly Prepared Areas Ahead of Crews
  - Checking All Substrates
  - Coordinating with Other Trades in the same areas
- Fueling the Engine
  - Materials On Site
  - Tools & Equipment on Site
  - All Details of Installation Communicated to Crew

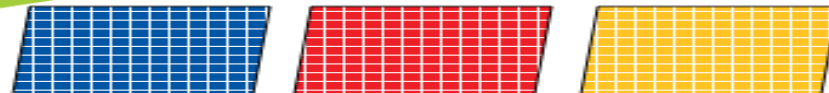
**Work to Remove Every Obstacle to Crew Productivity!**





# Improve Field Productivity – Safety Training

- Site Specific Safety Plan
  - SDS
  - Task Safety Plans
  - Weekly Tool Box
  - Silica Training & Tools
- Safety Certifications
  - 10 Hour OSHA
  - 30 Hour OSHA
  - Fork Lift
  - Scissor Lift
  - Boom Lift
  - PPE



Management Support



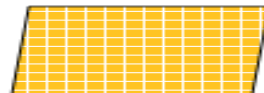
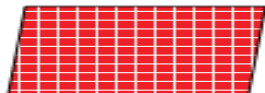
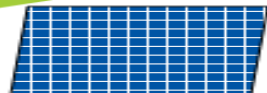
Safety Training



Pre-Planning the Work  
Turn-Over Meetings

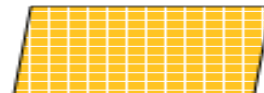
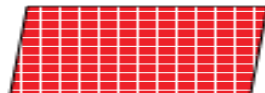
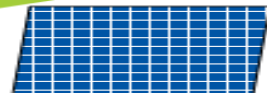


Clearing the Path



# Improve Field Productivity – Management Support

- Management Support
  - Change Orders
  - Material Deliveries
  - Manpower Loading
- Focus on Process vs. Outcome
  - What Can We Control or Influence That Makes a Difference in How We Perform?
  - Is Communication Effective?
  - Is Task Order Clear & Complete?
  - How Can We Improve?
  - What isn't Working?



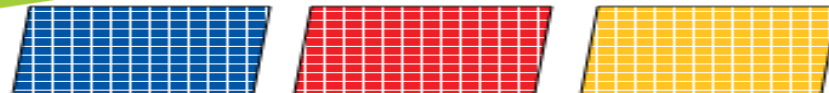
# Technology

Using technology to provide Management Support



# Every Employee Has A Smartphone

- Apps
  - Stand Alone or Multiple Module Apps
  - Integrate With ERP(Enterprise Resource Planning)
- App Area Examples
  - Time Reporting / Payroll
  - Mobile Time Clocks
  - Safety
  - Tool Tracking
  - Daily Reports



Management Support



Safety Training



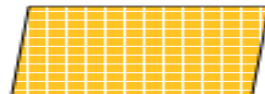
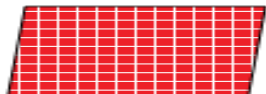
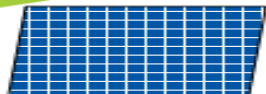
Information



Pre-Planning the Work



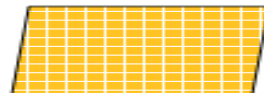
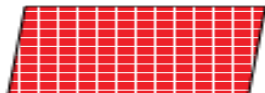
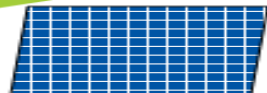
Clearing the Path





# Improve Field Productivity - Information

- Constant Information Flow
  - Office to Field
    - Updates on Schedule
    - Updates on Change Orders
    - Job Cost Reviews (Are we on Budget)
  - Field to Office
    - Extra Work Tickets
    - Daily Reports
    - Event Documentation
    - Safety Reports
    - Quality Control
    - Productivity Milestones



Management Support



Safety Training



Information



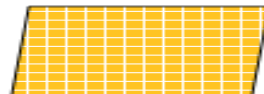
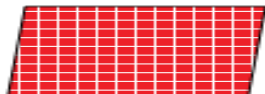
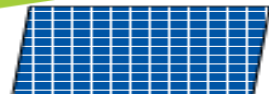
Skills Growth



Pre-Planning the Work

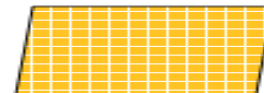
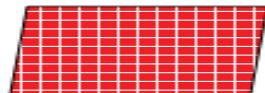
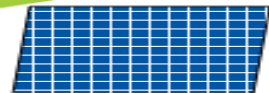


Clearing the Path



# Improve Field Productivity - Training

- Provide Skills Training
  - Apprenticeship
    - Mechanic & Finisher
  - Mechanics – CTI
  - Mechanic & Finisher – ACT
  - Superintendent
- Provide Management & Leadership Training
  - Understanding Different Personalities – DISC
  - Building Trust
  - Communication Skills
  - Setting Goals & Accountability
  - Clarifying Expectations



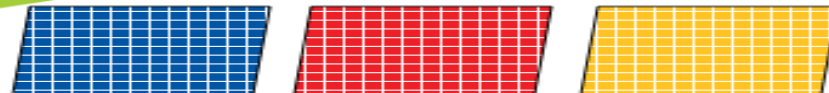
# Technology

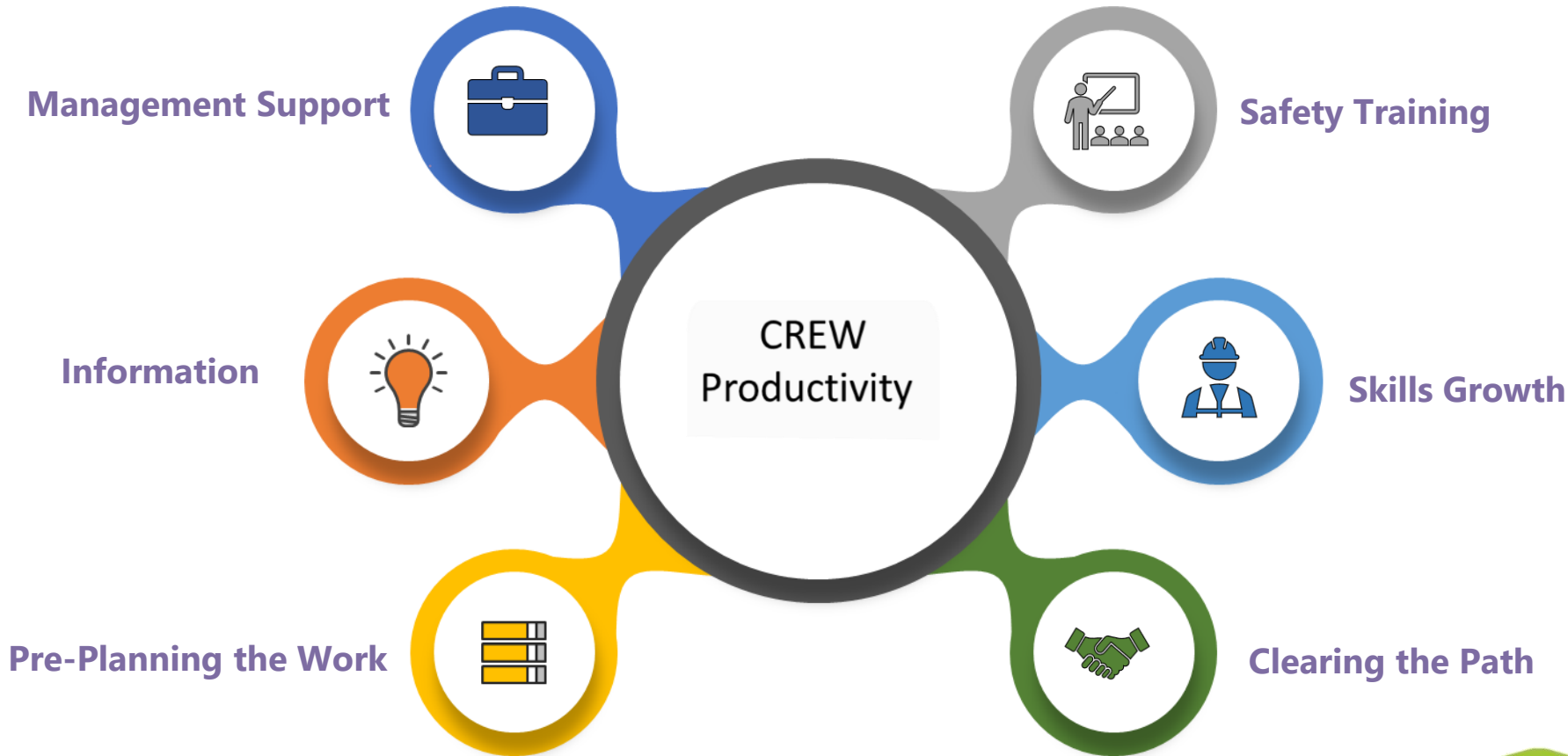
Using technology to improve Training



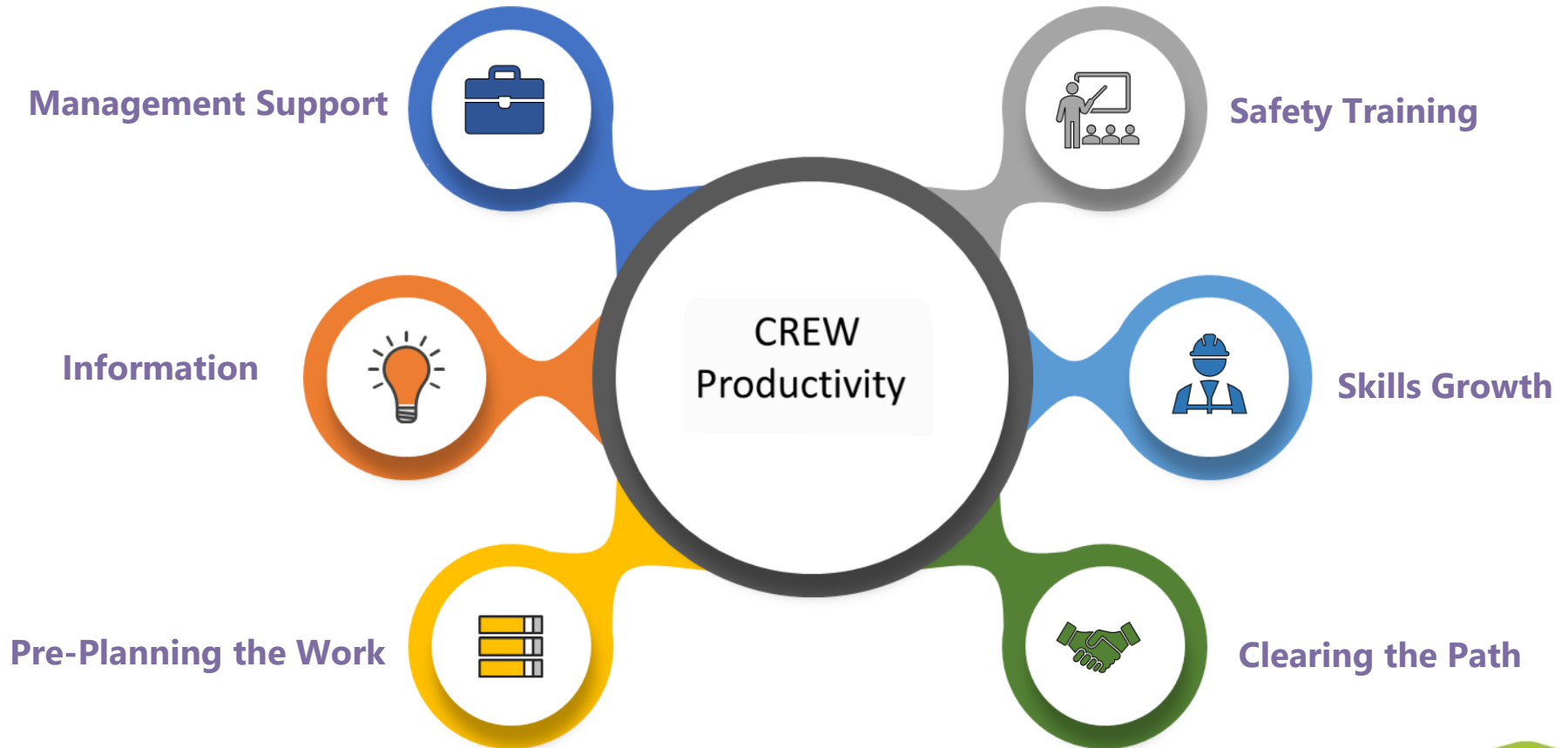
# Online Training

- OSHA 10 & 30
- NTCA University
- Company Online Training Curriculum - Finisher/Setter/Foreman/CEU





# Productivity is a Measure of Management Effectiveness



# Productivity is a Measure of Management Effectiveness

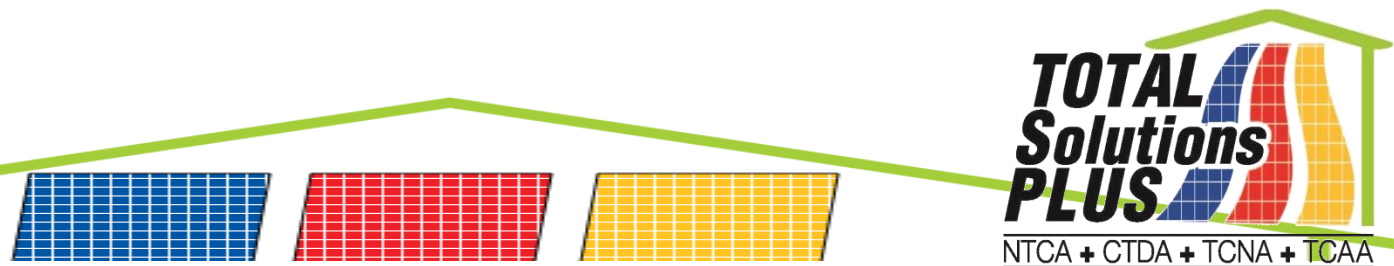
- Operational Excellence and Productivity Improvement Start at the Top
- To Realize a Significant Return, You must be willing to make Significant Investments
- You Cannot Fast Track Significant Cultural Changes
- Set the Bar High for Management and Field Teams
- Be on the Lookout for Leaders, Fence Riders & Assassins
- What Get's Measured, Get's Managed
- You Can't Manage What you Don't Measure





# Keys to Effective Management that Will Improve Productivity

- Communicate Clearly & Often
- Set Realistic Goals
- Reward Regularly
- Train & Educate
- Listen Well
- Plan With Purpose
- Keep Track of Materials
- Provide Adequate Time Off
- Convey the End Goal



**THANK YOU FOR ATTENDING, DO YOU HAVE ANY QUESTIONS?**

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