



Use Case

Trauma Care Information Management Systems (TCIMS)

Program Description:

■ **Goal: To construct a state-of-the-art trauma care system that provided effortless information flow for physicians, tactical commanders, trauma care centers, and field medics, to quickly and aggressively treat trauma victims within the first hour after they are injured. Key priorities:**

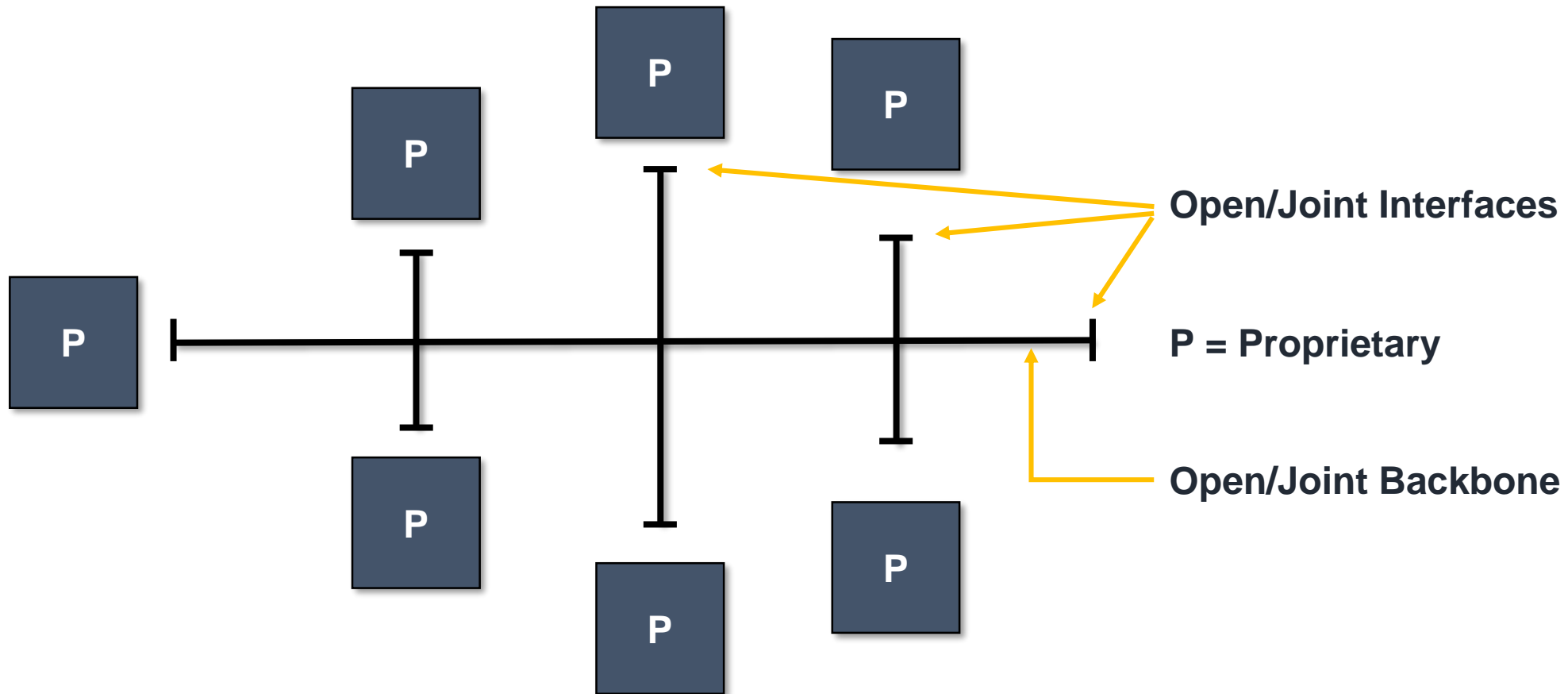
- **Monitor patient medical status remotely**
- **Track diagnoses and treatments**
- **Maintain information about patient location via GPS**

■ Composed of an open system backbone and interfaces using proprietary “plug and play” hardware and software components.

■ Consortium integrated leaders in medicine, informatics, data processing, and systems management:

- **Rockwell International C2 Division**
- **AT&T Bell Laboratories**
- **ISX Corporation**
- **Medical College of GA Research Institute**
- **NCR Corporation**
- **Science Applications International Corporation**
- **Texas Instruments**
- **Uniformed Services University of Health Sciences**
- **University of Southern California**
- **University of Texas, Arlington**

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Outcomes:

- Commercial Participation with cost-sharing benefited both military and the commercial sector (dual-use).
- System could be tailored for many uses:
 - Competent treatments
 - Keeping Records
 - Tracking patients between institutions
 - Generating statistics
 - Monitoring clinical trials
- Separate components used in TCIMS represented significant civilian markets for the commercial sector:
 - Database Management
 - Information display
 - GPS

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Outcomes:

- TCIMS was successfully used during military medical training exercises in Feb 1995 (Army) and April 1995 (Navy). However, the full potential of TCIMS was never accomplished.
- TCIMS pushed technology forward to what we have today:
 - Our GP and physician assistants can communicate with specialists
 - Med info can be shared
 - Remote medicine is possible and now being implemented.
- Today, DHA is trying to capture the vision of something like an expanded TCIMS (absent knowledge that it is what pushed the state of the art) but without realizing the full potential of OTs, open systems and vibrant collaboration.