



SCADA-TEMS Project



Presented by
SCADA-TEMS
Team

About SCADA-TEMS Team

- Lawrence Bernardo - Team Leader and Hardware Integrator
- William E. S. Yu - Software Developer
- Wilfred F. Tupaz - Light Sensors
- Alberto Carandang Jr. - Light Intensity Circuit
- Trina Castillo and Anthony Lee - Temperature Sensors and Air-conditioning Control

What is SCADA-TEMS?

- Sensory Control and Data Acquisition - Total Environmental Management System
- system that enables **expandable control** and **accessibility** for multiple remote devices
- flexible interfacing architecture for multiple **control systems**

Applications

- Applications include power plants, factories, relay facilities and other **physically dispersed** systems
- **mission critical** systems that entail just-in-time reporting and response
- flexible interfacing for **centralized** or **distributed** control systems

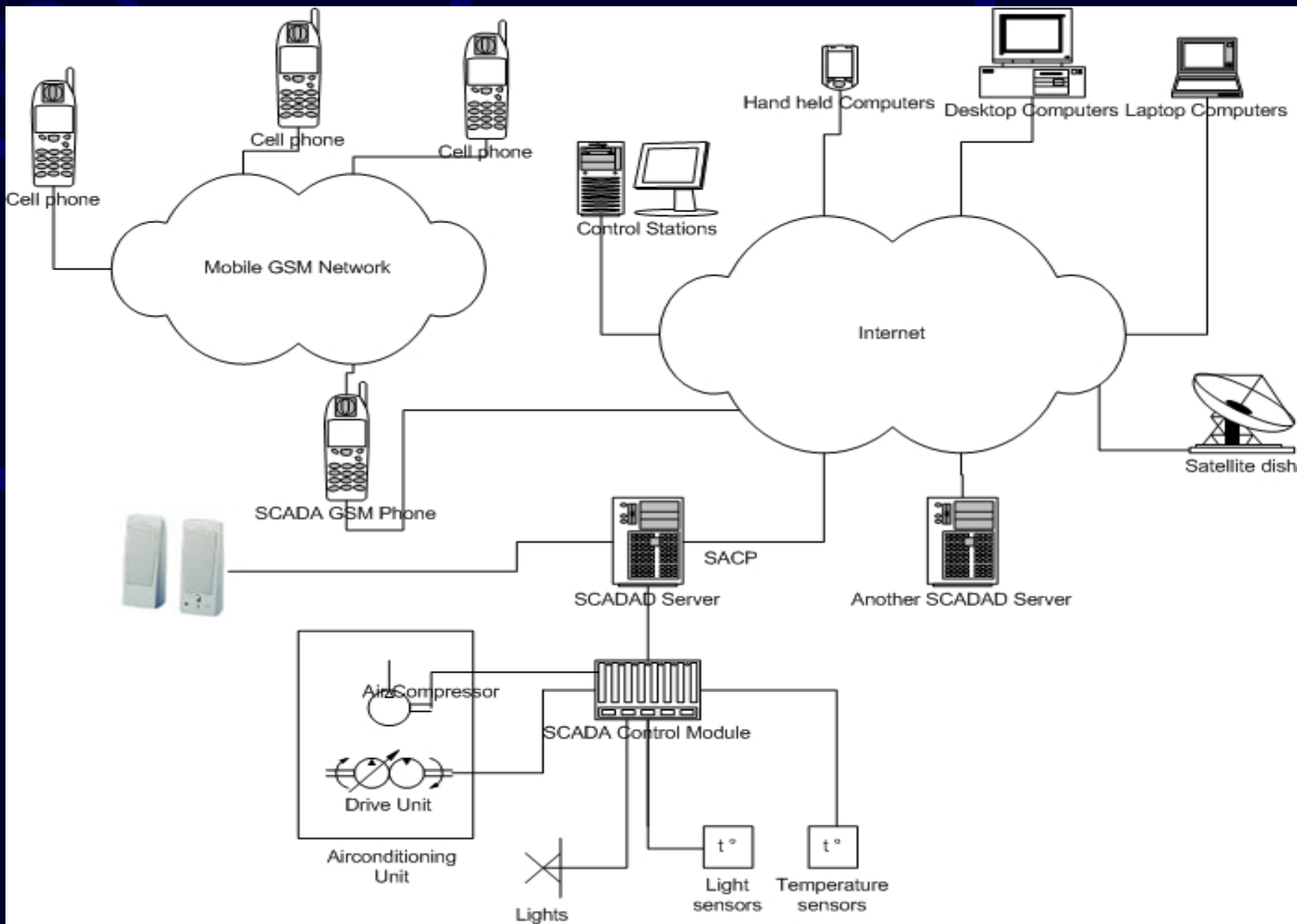
Benefits

- **Remote Control** of multiple devices, services and systems
- **Virtual Coverage** through multiple access mechanisms such as:
 - Web-based access
 - SMS via GSM to SACP gateway
 - SACP clients



Solution to deliver these
benefits is:

SCADA Total Environmental Management System



SCADA-TEMS Diagram

Control

- **enable** users and operators to access devices
- **obtain** status and operational information
- **respond** to system issues

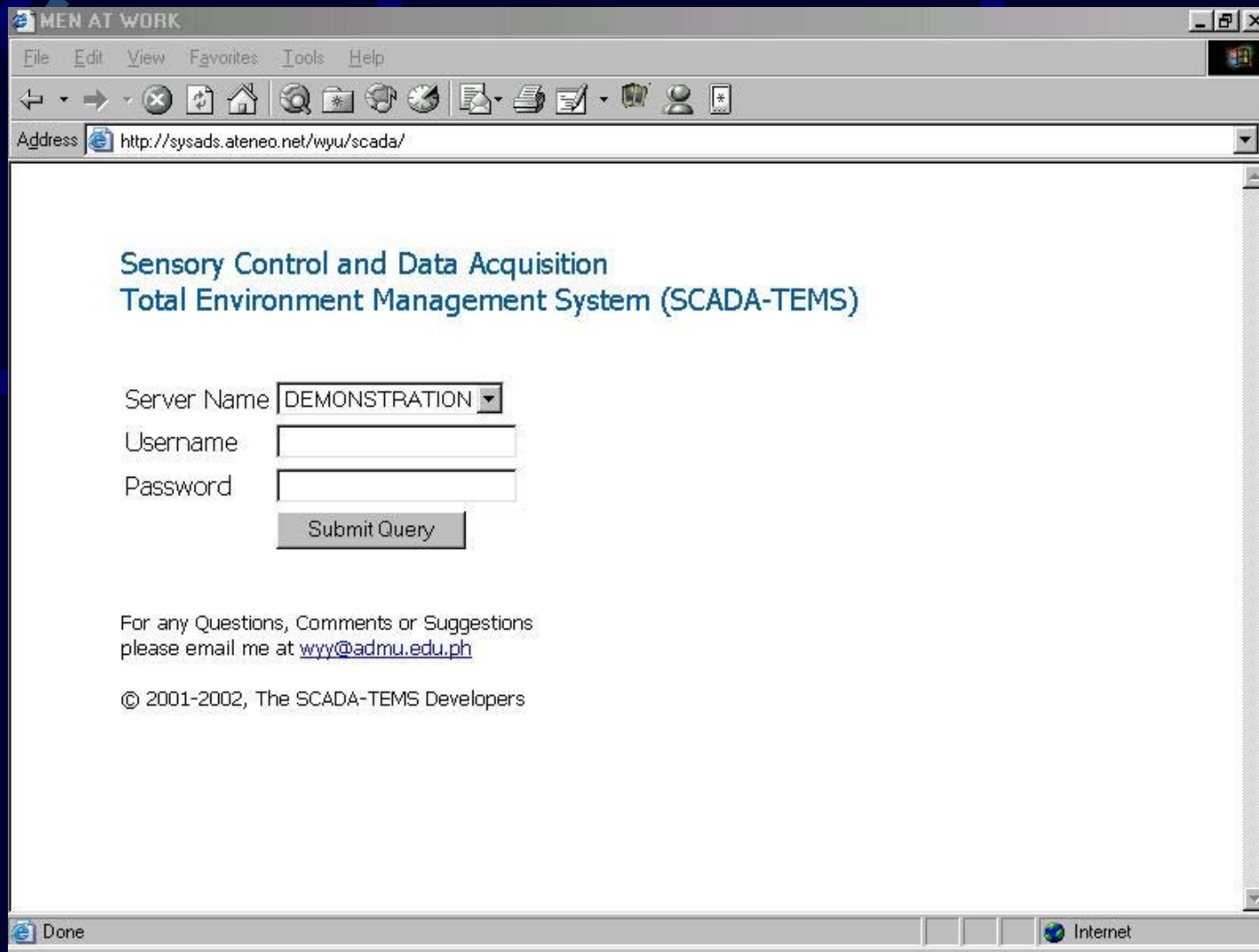
Expandability

- **attach** multiple devices via the SCADA-TEMS control module
- **develop** pluggable software modules
- **scale** with multiple synchronized SCADA-TEMS daemons

Universal Access

- **communicates** via the Simple Access and Control Protocol (SACP)
- **bridging** networks such as the Internet and mobile GSM networks
- **connect** via available Java, PHP and Perl clients

SCADA-TEMS



The image shows a screenshot of a web browser window titled "MEN AT WORK". The browser's address bar displays the URL "http://sysads.ateneo.net/wyu/scada/". The main content area of the browser shows the following text and form elements:

**Sensory Control and Data Acquisition
Total Environment Management System (SCADA-TEMS)**

Server Name

Username

Password

For any Questions, Comments or Suggestions
please email me at wyy@admu.edu.ph

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The browser's status bar at the bottom shows "Done" on the left and "Internet" on the right.



The CE150 Experience

Technical Learning

Overall Insights

Next Steps

The image features a dark blue background with a central graphic. The graphic consists of three concentric circles: an innermost circle with a fine blue hatched pattern, a middle solid blue circle, and an outermost solid blue circle. A horizontal blue line passes through the center of the circles. A dashed green line runs diagonally from the top-left to the bottom-right. Several solid grey lines form a grid, including a vertical line through the center and two diagonal lines forming an 'X' shape.

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