### Operators, Engineers, Machine Physicists

- **Archives:**
  - View live or archived alarm details
  - Operation/Availability
- **Alarms:**
  - View live or archived alarm details
  - Display: waveform, images, multi-channel arrays at the selected time
- **Multi-Channel Analyzer**: Display waveform of multi-channel arrays
- **Scope Trace Viewer**: View waveform of multi-channel arrays
- **Transient Recorder Viewer**: Display waveform of multi-channel arrays

### Administrators

- **Equipment name space**
- **Server watchdog control panel**
- **Remote Server Monitor**
- **Pop-up pollution**
- **Cut and paste**

### Developers

- **Server side:** CDI servers
- **Server wizards**
  - Help in code development
- **Rich clients:**
  - Acopbeans in netbeans or eclipse
  - ACOPNET in Visual Studio
- **Use COMA**
  - Ultra-simple clients (no framework involved)

### Everyone

- **The TINE Instant Client**
  - Browse, access and display anything

### TINE STUDIO

Any control system studio is primarily about the user:
- Operators encounter problems which need to be quickly diagnosed and solved
- Engineeers and physicists need to readily access all machine parameters
- Developers need to produce robust, functional and intuitive applications

Application requirements:
- Reliable
- Integrable
- Contains the barest necessary information
- No searching in arcane tree structures
- No pollution
- Very intuitive, immediate, and feedback with previously set user interface should be close to reality, the interface should make modifications where necessary.
- Operators: verification and testing procedures not yet available in GUI applications
- Administrators: checking availability and response of control system elements
- Developers: Checking server access.

Summary:
A studio should strive to meet the expectations of all categories of users, without restricting functionality or performance. This includes the developer as well as the operator and the machine. TINE is a studio that is designed to make the integrity of the application and make modifications where necessary.

http://tine.desy.de