

Electronic Laboratory Notebooks Edition IV

A Foundation for Scientific Knowledge Management

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References: 141

"This report is truly a must-read for anyone interested in electronic laboratory notebooks, from developers to end users, from vendors to clients, from academics to students. Its scope ranges from the history of ELN to a timely analysis of the current market, and studies ELN in the context of scientific practice and knowledge management. It is THE definitive document on ELN."

Indiana University School of Informatics

The paper laboratory notebook has been used for recording scientific discovery since the days of Leonardo da Vinci. It creates a permanent record of experiments for defending patents, complying with regulations and for writing research papers. However, trapped inside the notebook is the experience of the scientist. Failed experiments are doomed to be repeated again and again.

Driven by the need to increase R&D efficiency, organizations are turning to the next generation of Electronic Laboratory Notebooks (ELN). These new products are providing users with increased efficiency, improved intellectual property protection and data quality, and the creation of an institutional memory.

The report *Electronic Laboratory Notebooks: A Foundation for Scientific Knowledge Management Edition IV* is the fourth edition of Atrium Research's landmark study of the market for ELN technology. With over five years of research, this is the ultimate handbook for anyone considering an ELN purchase. Learn where others have succeeded and failed, gain insight into best practices, and get updated on the latest trends. No place else can you learn so much about supplier products in one place.

Users, prospective users, information technology professionals, scientists, and attorneys from life science, chemical, food, industrial and ELN suppliers have been contributed information to this ground-breaking study.

Covered in this comprehensive study:

- 200 pages of supplier product reviews with detailed comparisons and ratings.
- Definition of an ELN, history of the market, types of solutions available and basic components.
- A primer on knowledge management concepts and how an ELN can assist in the creation of a learning organization.
- Legal requirements, including authentication and electronic signatures.
- Examples of ELN usage in real life scenarios.
- Developing an ELN vision, strategy, and requirements.
- An exhaustive list of requirements prospective users or suppliers can use for their specification development.
- A primer on ELN technology and trends.
- A look at ELN security and disaster recovery practices.
- Best practices for ELN implementation and project management.
- Best practices for ELN supplier product selection.
- Benefits ELN users are experiencing, including an example return on investment case.
- Best practices for change management and ELN adoption.
- Market drivers and restraints.
- Total available size of the ELN market in units and potential revenue, including detail by country and discipline.
- Market growth rates.
- Projections for the future of ELN.
- The application of the Semantic Web to ELN by the University of Southampton.

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