





## CHUGAI

Introduction of E-WorkBook sees productivity gains of up to 30% for Chugai pharmacologists and reduces Chugai's reliance on paper, improving operational efficiencies and reducing risk.

- Productivity gains of between 20-30% for pharmacology scientists
  Productivity gains for up to 50% for preformulation groups

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Like many pharmaceutical companies, Chugai used paper notebooks to manage and record experimental workflows.

experimental worknows. The use of paper notebooks created a number of practical obstacles including illegible notes, transcription errors, onerous manual searches through past experiment records and time-consuming data printing and manual pasting into notebooks.

Based in Japan (read the case study in Japane: here), Chugal was aware of the risks natural disasters posed to its paper-based records, so required a solution that reduced the reliance or paper.

As an environmentally conscious company, Chugai was also looking for a way to reduce general paper use and the number of record storage areas that were required to store paper documents.

Chugai liaised with Roche, its Switzerland-based strategic alliance partner, to discuss the benefits of introducing an Electronic Laboratory Notebook (ELN).

Chugal also lialsed with its Chemistry Department Manager, who already used an ELN, to learn about the operational efficiencies that could be achieved by introducing such a system. Chugal decided to introduce IDBS E-WorkBook, the flexible system used by Roche, enabling the companies to share their system implementation experiences.

The domain experience provided by IDBS and regional partner, Japan-based CTC Life Sciences Corporation, was a major factor in Chugor factor in Chugor factor in Chugor factor in Chugor at the characteristic bit of the control of the

user-buyin methodology.

A high-level roadmap of the ELN was presented to the Research Division Management Team, which was followed by a series of lick-off meetings for groups and departments, where practical and operational issues were discussed. The aim of the user-buyin approxive was simple, by introducing a new concept or idea to small, supportive groups of people, the new concept. – Elwickbook in this instance – would be trialled, integrated and used.

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If successful, this process would be replicated throughout the workforce as others see and hear about the benefits from their own colleagues who had used the system, allowing users shared to the standard of the standard to the standar

investment was also measured.

Chugal did not set a 'go live' date for the initial ELIN public Instead, users were given the flexibility to migrate from paper to the electronic solution when they let appropriate, based on the status of their existing experiments. After the successful pilot project. Chugal pagen communicating the benefits production rollout. Chuga also undertrook business analysis allowing it to consider the unique demands of each department, to ensure the system was able to grow and mature with each user's needs.

Before the deployment of the system, Chugal provided a simple training session on E-WorkBook and explained how the system could be used in certain scenarios.

# The results

Chugai's internal analysis of benefits has shown significant time savings and productivity gains for each user group.

evan user group. Pharmacology scientists are seeing gains of between 20-30% in productivity, and, based on the quality and quantity of information captured using the ELIN when compared to previous paper methods, Analytical groups have seen a 30% improvement in efficiency. For structured standard operating procedure (SOP) driven experiments, Pre-formulation groups are seeing productivity gains of up to 50%.

A further benefit experienced by Chugai follow the ELNs deployment is the recording of more detailed experimental information. because of E-Work/Book's easy-to-use drag and drop functionality for instrument files and documents. This, when coupled with the system's search functionality, follows Chugai scientist guicker access to this richer data and information.

E-WorkBook has reduced Chugai's reliance on paper, improving operational efficiencies, increasing productivity and reducing risk. Below, users of the solution explain how E-WorkBook has improved their ways of working.

Hiroki Takaya, Group Manager, IMIT Group, Research Planning & Coordination Department, Research Division, Chugal, said: "The adoption of E-WorkBook has been incredibly smooth in fact, there were so few questions after the initial roll-out that we thought no-one was using the system?"

## Biology

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Kiyoaki Sakata, Oncology I Group, Discovery
Pharmacology Department, Research Division,
Chugal, said: "Since the Implementation of
E-WorkBook, storage space has no longer been an
issue. Users have saved time as historiaelectronic information is easy to find using the
Reyword search function, which mean less time is
spent reading through oil ondebooks.

spent reading tirrougn oin notebooks.

"We used to print out and cut and stick all
experiment-related information such as protocol,
raw data and results into the paper notebook, but
after the deployment of E-Workfook, hand written
notes can be inserted as scanned copy, all the
results and raw data can be dropped in, so it's easy
to use and saves time.

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"Some of the requires! for information can be very detailed, concerning curve fitting or raw data, for example. E-Wickshoot makes responding to detailed requests much easier as we can retrieve data faster. Also, when manipulating or when the properties of th

Analyzad Vicabyuki Firuta. Analytical Instrument Group, Wedundu Chemistry Research Department. Research Division. Chipals. sald: "Whitesargis far Research Division. Chipals. sald: "Whitesargis far easier using E-WorkBook. With paper notebooks, crosschecking Information vas time crossuming, but now the information is easily accessible and all in one place. This side helps improve team which is the place of the place of the place of the sealest of this place acepterments, which can be useful when someone leaves the company.

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"Screen shots from instruments, and date which has been exported to PDF files, can be inserted into experiments. The system also allows you to insert direct links to the servers where raw data and results are stored. Since moving and results are stored. Since moving the depth quality and quantity of information being captured and recorded."

Although traditionally slower than top-down approaches, the user-driven methodology has seen over 200 users embrace E-WorkBook so far Some of these users have moved to new departments, acting as ambassadors for E-WorkBook, growing internal interest in the solution.

Chugai plans to release the system to its entire research division, including any subsidiaries outside Japan, throughout 2016. Using the feedback gained from the first adopters of E-WorkBook, Chugai is now accelerating the ri out process and is providing hands-on training hundreds of users at a time.