

Knowledge Transfer Partnerships

KTP BENEFITS

Knowledge Transfer Partnerships are designed to benefit everyone involved

- 🔄 Businesses will acquire new knowledge and expertise
- 🔄 KTP Associates will gain business-based experience and personal and professional development opportunities
- 🔄 Universities, colleges or research organisations will bring their experience to enhance the business relevance of their research and teaching

Knowledge Transfer Partnerships

Accelerating business innovation; a Technology Strategy Board programme

<http://www.ktponline.org.uk>

HILL HOLT WOOD PRODUCT DEVELOPMENT AND DESIGN THROUGH KTP

ABOUT THIS CASE STUDY

Hill Holt Wood based in Norton Disney, Lincoln manage an ancient woodland and its core operating activity is the delivery of education, training, and job skills development services.

In partnership with the University of Lincoln, the aim of this knowledge transfer partnership (KTP) was to develop designs for a range of autonomous eco-buildings leading to the establishment of an environmental social enterprise construction company.

ABOUT THE SPONSOR

The role of **Social Enterprise East Midlands (SEEM)** is to work across all sectors to enable social enterprise to develop and grow. The Regeneration Across Communities of Lincolnshire (RACoL) has centred on a commitment to underpin sustainable communities while seeking to improve key services and access to them, promoting diversification, and protecting both the environment and rural heritage.

FAST FACTS

- 🔄 Training of social enterprise workers in construction techniques
- 🔄 Produce detailed designs for prototype autonomous buildings and supervised construction
- 🔄 Monitoring/testing of building environmental performance
- 🔄 Develop marketing strategy for commercial launch of social enterprise autonomous construction company

The Company



“Hill Holt is a 14 Ha mixed deciduous ancient woodland bordered by an ancient ditch and bank, and adjacent to a buried Roman Villa. Over the past nine years it has been transferred from unmanaged declining woodland into a thriving social enterprise.”

Nigel Lowthrop, Founder Director, Hill Holt Wood



ABOUT THE PROJECT

The aim of the KTP was to develop designs for a range of autonomous eco-buildings leading to the establishment of an environmental social enterprise construction company.

THE BENEFITS

Hill Holt Wood has taken a significant step forward in its mission to become an exemplar rural community demonstrating social, environmental and economic sustainability. The development of the eco-village/sustainable construction project and particularly the Woodland

Community Hall has required the development of outreach skills, funding proposal writing, report preparation, presentation skills, working with strategic partnership organisations, lecturing and seminar preparation, fund management and financial accounting, materials procurement and staff scheduling to enable the progression of the this project and its ancillary sub-projects. The Company as a whole and many of the staff in particular have also developed practical capabilities in the field of environmental construction.

The Company and staff have acquired an advanced placement in the field of

environmental architectural design in the East Midlands. The Company was already a national leader in the field of dry toilet technology, now further sustainable construction design and renewable energy technology have been included as part of the services available.

The Company has increased its capacity to deliver sustainable construction projects. The management of such projects has been incorporated into the structure of the Company and the building of the Woodland Community Hall will vastly increase this ability.

THE RESULTS

- 🌀 The Company and staff have acquired an advanced placement in the field of environmental architectural design in the East Midlands
- 🌀 The Company has added further sustainable construction design and renewable energy technology to their services
- 🌀 The Company has increased its capacity to deliver sustainable construction projects
- 🌀 Staff have been trained in strawbale building technology, solar hot water systems assembly and the use of photovoltaic panels

The Associate

“This KTP collaboration has proven that a shared project between independent organisations can be of great mutual benefit to all, as well as innovative solutions contributing to the development of a truly sustainable society.”

Bryce Gilroy-Scott, KTP Associate

The objective of this KTP program was the start up of a successful eco-construction company, and to develop an exemplar sustainable rural community including six eco-houses and a Woodland Community Hall to be built within Hill Holt Wood itself.

Bryce Gilroy-Scott has had to simultaneously manage several streams of work to create the foundation required to launch the new company. New designs for sustainable construction projects and the securing of external contracts with local organisations and schools continued the growth of the minor works construction business. While at the same time he project managed the design, regulatory permissions, funding package and construction works required to complete the eco-community at Hill Holt Wood.

The reputation of Hill Holt Wood as a small organisation with a big vision for thinking about sustainability, has been significantly furthered by the knowledge and skills generated by all parties via this KTP.

The Academic Partner



“On completion of the project currently under construction, the contribution from Lincoln School of Architecture will have provided the Company with an exemplar low-carbon building and the necessary skills to develop their social enterprise sustainable construction business.”

Professor John Chilton, Lead Academic,
University of Lincoln

The Knowledge Base partner for the project was the University of Lincoln's Faculty of Art, Architecture and Design. Lead Academic was Professor of Architectural Structures, John Chilton, working with Dr Behzad Sodagar.

BENEFITS

The Project has made a major contribution to the sustainable architectural technology research group's work within the Centre for Sustainable Architecture and Environments (CSAAE), by assisting the group to incorporate a social enterprise dimension into its research and developing contacts with local architectural practices. Dissemination of the work in Chile has prompted potential international research collaborations.

Project partners have jointly published one journal paper (one pending) and six conference papers/presentations, with more in preparation.

RESULTS

- 🌀 Strengthened links with the Company with potential for a further KTP
- 🌀 Two new KTPs in the School of Architecture
- 🌀 Development of relevant and contemporary case studies to assist teaching
- 🌀 Engagement with the student body, through commissioning of student projects