

Strategic plan for TISIP 2012 – 2017


Adopted by the Board 26.09.2012



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TISIP was established on December 17, 1985. TISIP sprang from the Department of Information Technology and e-learning at HiST. The Foundation is now an independent research institution, but will continue to collaborate with the University College.

The target groups for the strategic plan are customers, partners and other stakeholders.

TISIP's main tasks according to Statute § 4a:

To engage in teaching and research: The business will be operated by its own employees and those in ancillary positions in institutions with which TISIP collaborates. The Foundation will seek to collaborate in particular with the Department of Information Technology and e-Learning (AITeL) at HiST, but also cooperate with other departments in HiST, NTNU and other colleges and academic institutions.

Activity	2012		2017		Growth
	Revenue	Percent	Revenue	Percent	
R & D projects	1200	24,0 %	2400	21,8 %	120 %
Vocational college	1300	26,0 %	2500	22,7 %	92 %
Concurrent design	390	7,8 %	3500	31,8 %	797 %
Courses and online training	680	13,6 %	1100	10,0 %	62 %
Books and digital resources	660	13,2 %	660	6,0 %	0 %
Support	770	15,4 %	840	7,6 %	9 %
	5000	100,0 %	11000	100,0 %	120 %

Currency is NOK.

R & D Strategies



The aim of research in TISIP is to generate new knowledge within a socially responsible perspective. Research is conducted in an international environment with an emphasis on the EU-/EEA-area. We connect local issues to global research themes. TISIP meets the needs of both the business community and government users. Our greatest expertise is in organizational development through learning and interaction. We develop and adapt advanced ICT solutions as a tool for development processes.

Research topics - TISIP's research areas are in e-learning, ICT and Concurrent design, CCD.

TISIP has more than 20 year's experience of participating in international e-learning projects. TISIP has participated in projects in the Socrates, Minerva, Leonardo and eLearning programmes as well as in the Framework programmes. We have had good results in our applications and we have participated in projects both as coordinator and as partner.

The research is documented in various publications, often in collaboration with HiST.

Our e-learning solutions are used in universities, colleges and businesses.

E-learning

- Organization of e-learning
- Business Models
- Pedagogy in e-learning
- Personal Learning Networks(PLN) and individualized learning
- Automated tests
- E-learning platforms
- Tools for publishing, video, streaming, collaboration, etc.
- Standards

Concurrent design

- Construction of the CCD rooms
- Software for collaboration
- Methods for interaction (ConCurrent Design)
- Interactions related to e-learning, professional development, tenders, etc.

ICT

- Image processing, 3D and visualization
- Development of support systems for distance learning
- Methods in the operation of computer systems, including security
- Software solutions
- Advanced Web solutions

Affiliates

- HiST
- Uninett
- NTNU
- HiNT
- BI
- UNIconult
- Aker Solutions
- Animalia
- Mittuniversitetet, Østersund
- University of Rome
- Alexander Technological Educational Institute of Thessaloniki
- University of Greenwich, London
- Fachhochschule Koblenz, RheinAhrCampus Remagen, University of Applied Sciences
- CENFIM, Lisbon
- Baltic Education Technology Institute (BETI), Vilnius, Lithuania

TISIP vocational college



TISIP vocational college aims to provide vocational training approved under the Act on vocational training. Courses offered cover areas in which TISIP has expertise and which is in demand from industry. Courses may be both classroom-based and online. NOKUT and the Loan Fund have approved the IT administrator course and the online IT operations and IT sales courses. New services are being developed.

The IT administrator course can also lead to EUCIP certification. Of the 49 who have taken the IT administrator course so far, 40 have completed and 17 have achieved EUCIP certification. The course is highly job relevant, but also allows for continued operational education at Sør-Trøndelag University College.

Themes

Class-based course of 26 weeks duration:
• IT-administrator

Web-based 2-year course:
• IT Operations
• IT sales

New six month web-based course:
• IT operations and infrastructure

Tertiary vocational education emphasizes that courses should be practical and job relevant. TISIP collaborates with companies such as Experis, Academic Works, Xtra Personnel and ATEA.

Target groups

The vocational college targets both first-time students from secondary schools and adults who need an update of new expertise. Courses are both classroom-based and online. The goal is that students can go directly into employment after graduation.

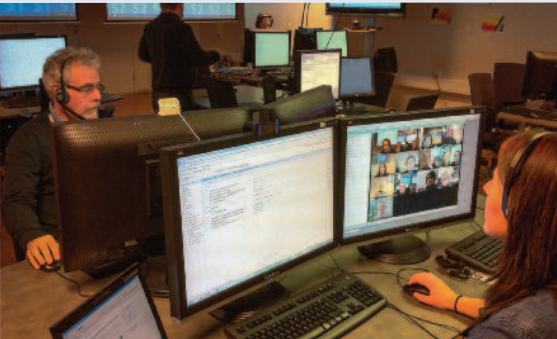
Learning Environment

TISIP has 20 years experience in providing online study. We have developed comprehensive learning materials and our faculty has authored 17 Norwegian textbooks in ICT, including EUCIP books. We interact with students using learning platforms such as It's Learning or Moodle. We have a modern and well-equipped computer laboratory. For online communication, we use a multi-media lab and software like Adobe Connect and Lync. We work with NTNU to develop the learning environment.

Costs

TISIP College is a private institution, with no public support. Revenue to run the courses must come from fees from the students. Study programmes are approved by the Norwegian State Loan Fund and students granted student loans for tuition fees and living expenses. Some students may also apply to NAV for support. TISIP is a member of the Abelia Forum for vocational colleges. The Forum works with ministries, NOKUT and political authorities. The goal is to achieve public support and equal treatment of public and private providers. The Forum also develops joint solutions for study contracts, complaints, etc.

Concurrent design (CCD) and e-learning



TTISIP has acquired a great deal of expertise and experience in the development and production of e-learning, through years of research and development. This expertise is also now in use through the adaptation of the method of Concurrent design to e-learning, known as CCeD, Concurrent e-learning design. TISIP can now offer the use of CCD for a wide range of different applications.

Concurrent design is a method of using computer tools and structured activities making it possible to get experts to develop common solutions simultaneously. This can happen in a tailored interaction room (CCD), or when the participants interact in real time via the Internet, Distributed Concurrent design (dCCD).

The target group for CCD has traditionally been large companies such as oil companies and contractors. These often have their own CCD-room. TISIP, AITeL and NTNU have developed, adapted and tested the method for small businesses and for a range of applications such as design of heaters, the development of campus and online courses, business models, organization of teaching, tenders, etc. The projects are carried out in both HIST's own CCD room and distributed to key players across Europe.

TISIP offers may include:

- Training in:
 - CCD method
 - CCeD method
 - Distributed CCD, i.e. training in appropriate tools such as Adobe Connect, Google docs, etc.
 - The role of the facilitator
 - Cooperation and management of groups (team coaching)
- Rental of interaction room with or without a facilitator
- Business/project adaptation:
 - Advice for building an interaction room, infrastructure, equipment and software
 - Calibration of the method for various projects/sites
 - Preparation and use of interaction for distributed projects
 - Assisting in the implementation of a CCD project

Resources:

All TISIP employees have been involved in the development of our method for Concurrent Design. We have now completed ten or so projects both nationally and internationally and among other things contributed to three new CCD subjects at HIST, and several bachelor projects and a PhD have been completed. The work is documented in numerous scientific and popular articles. In addition to the staff of TISIP we can draw on many employees and considerable expertise in the University College.

TISIP courses



EUCIP - Data associations European Certificate for IT professionals

EUCIP is a certification for IT professionals. TISIP has signed an agreement with the Norwegian Computer Society and EUCIP AS, as a certified course provider. TISIP offers courses for the whole Core Level, ie, Plan, Build and Operate. TISIP has also written Norwegian textbooks covering the curriculum and developed online courses for EUCIP. It is possible to take the certification test at TISIP.

In addition to the Core Level, TISIP has developed a curriculum for IT administrators. This certification can currently only be achieved through our vocational college courses.

FITS - Framework for ICT Technical Support

FITS is a framework for ICT technical support. FITS is specifically designed for schools and based on the ITIL standard. The target group for FITS is system administrators and heads of ICT in their schools, both employees of municipalities and counties, but also employees at each school.

TISIP has signed an agreement with the Centre for ICT in education to be the course provider. TISIP has certified trainers for Part-1, Practitioner, and will shortly be offering part-2, Administrator. Courses are classroom based, with 2 days for Practitioner and 3 days for Administrator. TISIP has translated and adapted to Norwegian, textbooks from English. It is possible to take the certification test at TISIP.

TISIP offers individual courses, but also organizes courses in collaboration with school owners.

Individual courses in ICT

TISIP does not wish to be a course factory. We strive to provide quality courses based on the skills of outstanding scholars or practitioners of the discipline.

It & Pedagogy

College professor and author Svend Andreas Horgen has offered courses and seminars in IT and education for many years. His seminars cover topics such as the use of Web 2.0 and social media in education, personal learning networks, how it's learning or other LMS systems can be used pedagogically and digital tests. Horgen is author of the textbook Web programming in PHP. Horgen is moderator of the site Del og Bruk (Share & Use), and is a member of the editorial board of the magazine SYNC. Horgen has received the TISIP e-learning award.



The purpose of the course activities is to meet the need for new knowledge in companies, government agencies and individuals. The courses must be job specific and provide added value in the short term. Achieved results are documented with a certificate of attendance, vocational school points or certification.

MS operating solutions

ICT operations is an area of rapid development. In collaboration with AITeL, TISIP has access to considerable expertise in this area. Our trainers combine technological curiosity and continuous updating of skills with practical and educational organization to a high quality. The feedback from the courses is excellent, whether they take place as part of the TISIP school or as individual courses.

Use of CCD method

Going from traditional project management to multi-disciplinary collaboration requires training. This applies both to the role of process participants and the facilitator. This requires both an understanding of compassionate interaction and knowledge of how technologies can be used and interplay.

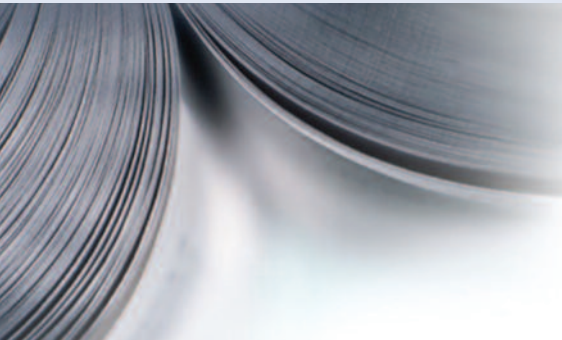
TISIP has participated in the tailoring of the method for Norwegian conditions. CCD classes are offered by our experts who not only run the research and development, but also the practical use of the method.

Other ICT courses

TISIP has written 17 Norwegian textbooks in ICT. Most of the textbook authors teach courses at HiST University College. It is possible to arrange courses and seminars in which this special expertise is available with TISIP staff as trainers. Examples of such courses include Databases, ITIL, Programming in C + +, Java, PHP, modern methods of systems development, etc.

TISIP cooperates with AITeL regarding classrooms and has access to labs with modern computers, software and Internet access.

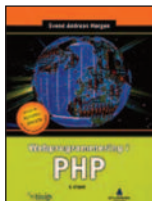
Books and digital learning resources



The aim is to write IT textbooks in Norwegian. This gives good access to the subject matter. Norwegian textbooks are based on Norwegian examples and practices. Most books are published in collaboration with the publishers Gyldendal Akademisk. TISIP has published 17 textbooks in Norwegian.

The textbooks are "fresh" and new editions are planned in line with technological changes. The web pages of the books contain additional Power Point Slides, programming examples, exercises and solutions etc. Our writers have extensive experience in teaching the courses and the textbooks therefore not only contain the necessary theoretical basis and updated course material, but are also designed to promote good pedagogical practice.

Some of our textbooks.



Digital learning resources

TISIP owns the publishing rights to the material that covers 70 online courses in higher education. Much of the curriculum is text-based. TISIP is now working with other types of learning resources, such as video. There is also a great deal of educational material available online. Some of this is personalized learning, while most are resources that exist for other purposes. We are examining how these external resources and social media can be adapted to a learning situation through the Understand IT and Personal Learning Network projects.



TISIP participates gladly in projects in which we work with the customer in a school or a business to locate or develop digital learning resources to meet user needs.





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