



Peter Kolp

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Objectives

Being successful in the art of system analysis and modeling and as a software architect and developer.

Personal Data

* 28th January 1963 in Oberpullendorf, Austria
Austrian Citizen
Married (with Sabine – since 1992)
1 daughter (Cornelia, *1993)

Professional Experience

2004 – current

IIASA (www.iiasa.ac.at)

Design and implementation of databases and analytical tools used in the program's research work, e.g. a database of emission scenarios which has been used for preparing the IPCC 4th Assessment Report (AR4).

The toolset developed for the GGI database is reused for a couple of web applications like the RCP database (online at <http://www.iiasa.ac.at/web-apps/tnt/RcpDb>) or the upcoming renewables scenario database (online <http://www.iiasa.ac.at/web-apps/tnt/SrRenDb>)

The GGI Scenario Database, which is online at <http://www.iiasa.ac.at/web-apps/ggi/GgiDb>, is a web application visualizing research results stored in an ORACLE database

Developing methodologies and GAMS models for downscaling regional indicators (like final energy use or GDP) to the country level.

- 2004 – current (cont.) The IIASA Logistic Substitution Model II, is a software tool to estimate the parameters of technological growth and substitution processes.
<http://www.iiasa.ac.at/Research/TNT/WEB/Software/LSM2/lsm2-index.html>
Maintenance of the TNT program's web site, including a redesign to match the Institute's look and feel.
- 1999 – 2004 IRM AG (www.irm.at)
Evaluation of software architecture options (J2EE, .NET, CORBA)
Software development processes and models.
Project Experience (Austria, Switzerland, Germany, Sweden, Italy) – key aspects: deployment, interfaces, connecting IRM/iOPT to a variety of systems and environments
Software development (Java, Python, C/C++, FORTRAN,...), interfaces / interconnections (ASCII, Dbase, ORACLE, XML, several APIs – e.g. JMS, EEX/VALUES)
- 1989 - 1999 TEMAPLAN GmbH (www.temaplan.at)
System analysis and modeling (MESSAGE), software development, operating, ...

Publications

Gruebler A, O'Neill B, Riahi K, Chirkov V, Goujon A, Kolp P, Prommer I, Scherbov S, Slentoe E (2007). Regional, national, and spatially explicit scenarios of demographic and economic change based on SRES. *Technological Forecasting & Social Change (Special Issue: Greenhouse Gases - Integrated Assessment)*, 74(7)980-1029.

Nakicenovic N, Kolp P, Riahi K, Kainuma M, Hanaoka T (2006). Assessment of emissions scenarios revisited. *Environmental Economics and Policy Studies*, 7:137-173.

Furukawa, M., Kolp, P., (2006), Economic and Environmental performance of Natural Gas and Hydrogen Fueled Decentralized Energy Systems – A Life Cycle Analysis (Interim Report IIASA Contract No. 05-121, submitted to The Tokyo Gas Co., Ltd.).

Nakicenovic N, Gruebler A, Chirkov V, Kolp P (2005). Synthetic Fuel Technology Adoption under Climatic Constraints in the Asian Region. Research study conducted for the Environmental Research Center (ERC), Tsukuba, Japan; IIASA, Laxenburg, Austria.

Skills

Seasoned (about 20 years experience) in system analysis and modeling (MESSAGE), software development and architecture, operating (SA, DBA).

Programming Languages: A to X (awk to XML)
Java, Python, C/C++, FORTRAN, scripting languages (awk, Tcl/Tk, Python, Perl, sh, ksh, csh, ...) XML/XSL(T), modeling languages (GAMS, R)

Interfaces:
requirements elicitation, design, implementation
TIBCO BW, JMS, XML, ORACLE DB, Dbase, MS Excel, ASCII, CSV, ...

Databases (relational and object oriented):
ORACLE (DBA), PostgreSQL, MySQL, hsqldb, Mckoi
POET (Versant) Fastobjects

Software configuration management:
SVN (Subversion), CVS (Concurrent Version System)

Database APIs: JDBC, ODBC, PROC, JDO, ODMG

GUI: Swing, HTML(XML-XSL; Cocoon), Tk, Windows API, X-Window, Motif, ...

Models, Processes:
SEI-CMM, PSP, TSP, NASA-SEL, MDA, MDD,
RUP/EUP, XP, AM

MS Office (Word, Excel, PowerPoint)

Operating systems: Win32 (NT, W2K, XP), Linux, AIX, Tru64, SCO, Unixware, (IBM CMS, DEC VMS, DOS)

Network: HTTP, FTP, SMB, SMTP, POP(3), ..., TCP/IP, Gateways, Firewalls, Routing, Switches, Hubs,

Education

since 1981	Studies at the Technical University of Vienna, Engineering / Traffic Engineering
1981	Matura at the BORG in Oberpullendorf (general qualification for university entrance)
1973 - 1981	AHS (BRG/BORG) in Oberpullendorf (secondary school)
1969 – 1973:	Volksschule in Kirchsschlag i.d. B/W (primary school)

Continuing Education

ORACLE DBA	ORACLE DBA (K33081+K33082, September 2001)
periodicals (regular)	Ct, IX, Javamagazin, LinuxMagazin ORACLE Magazine
books	(recent sample) Rupp, Chris: Requirements- Engineering and – Management
www	Software development models and processes, e.g. Agile Modelling, SEI-CMM, -PSP, TSP, NASA-SEL Newsletters (e.g. www.java-channel.org , ...)

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Peter Kolp