



THE FORUM FOR EUROPE'S LANGUAGE TECHNOLOGY INDUSTRY

Background information on companies, products and services in the LT industry

This document contains examples of products and services in the LT industry, segmented into the five “innovation themes” identified by LT-Innovate. The list deliberately mixes technology segments (intelligent content, translation & speech) to illustrate the coherence of LT from a market perspective. The examples include links to articles, which illustrate or describe the application, most of them aggregated in the LT Market News section of the LT-Innovate portal (<http://www.lt-innovate.eu/news/lt-market-news>).

The list is illustrative rather than comprehensive, and the companies referenced have not been selected on any grounds other than convenience and the fact that many of them have recently come across the market research radar in the press. This is a work-in-progress, and matching vendors and products/services/markets will be refined and expanded as the LT-Innovate vendor database matures.

I. The INTELLIGENT ENTERPRISE

Language intelligence is at the heart of the Intelligent Enterprise, supporting and enhancing business management, operations and sales & marketing. Today companies achieve significant operational benefits, competitive advantage, and market opportunities through use of LT-enabled products and services. Tomorrow, the evolution and integration of LT-based functions will determine winners and losers in many industries.

LT in Business & Finance

1. Adding speech analytics to the Business Intelligence platform

Bringing expanded intelligence to the executive desktop from the speech analytics developer Aurix (UK)

<http://langtechnews.hivefire.com/articles/share/115392/>

2. Improving Business Intelligence through semantic monitoring

Cogia Intelligence (Germany), a private intelligence company, one of the first technology companies to develop a unique multilingual semantic monitoring product that penetrates and structures the traditional Web as well as the social media content.

<http://langtechnews.hivefire.com/articles/share/132348/>

<http://langtechnews.hivefire.com/articles/4873/case-study-social-media-text-analytics/>

3. News analytics in financial trading

<http://langtechnews.hivefire.com/articles/share/113932/>

4. Automatic translation for litigation and eDiscovery

Including chat translation

<http://langtechnews.hivefire.com/articles/share/26038/>

5. Providing semantic consistency in financial services

Dealing with legal contracts about complex financial instruments and multi-faceted entity relationships, common business terms that have different meanings, common meanings that use different terms, vague definitions that don't capture critical nuances, e.g. through the use of XBRL, or semantic databases.

<http://langtechnews.hivefire.com/articles/share/125038/>

<http://langtechnews.hivefire.com/articles/share/129018/>

<http://xbrl.squarespace.com/journal/2012/2/28/seeing-implications-of-consistent-semantics-by-looking-at-ba.html>

6. Deriving semantic clarity in legal documents

<http://langtechnews.hivefire.com/articles/share/127936/>

7. Multi-language analytics for Business Intelligence

<http://langtechnews.hivefire.com/articles/share/115380/>

8. Natural language queries from mobile devices to Enterprise systems

<http://langtechnews.hivefire.com/articles/share/131015/>

LT in Discovery, Risk Management & Compliance

9. Automatic rule generation for “Fraud Mining” with LT

MintifyRule from **PAYMINT** (Germany) for identification and analysis of fraud risks and near real-time multi-channel fraud detection

<http://langtechnews.hivefire.com/articles/share/52786/>

10. LT-based eDiscovery for law firms and legal departments

Text and rich media analytics and semantics

<http://langtechnews.hivefire.com/articles/share/127936/>

<http://langtechnews.hivefire.com/articles/share/129742/>

<http://langtechnews.hivefire.com/articles/share/88324/>

<http://langtechnews.hivefire.com/articles/share/100914/>

11. Retention and disposition compliance (documents, email, content) with automated classification

<http://langtechnews.hivefire.com/articles/share/127801/>

12. Information governance using semantic metadata

<http://www.paymint.com/products/mintify-rule.html>

13. Adding security in financial transactions with LT

The patented voice-based Out-of-Band authentication and transaction verification solution from **ValidSoft** (UK) usable in mobile banking; the voice verification systems of **192 business** (UK), with a rules-based transaction decision matrix; the analysis of a user's face, voice, and gestures in banking services, provided in a new system developed by innovator **Etronika** (Lithuania)

<http://langtechnews.hivefire.com/articles/share/123634/>

<http://langtechnews.hivefire.com/articles/share/114211/>

<http://langtechnews.hivefire.com/articles/share/125177/>

<http://langtechnews.hivefire.com/articles/share/115511/>
<http://langtechnews.hivefire.com/articles/share/129224/>

14. Using LT to monitor business relationships for risk management

Finnish risk-management company uses [Autonomy](#) (UK)
<http://langtechnews.hivefire.com/articles/share/34171/>

15. Customer analytics for risk management in retail banking

<http://langtechnews.hivefire.com/articles/share/9646/>

16. Using LT for compliance in financial services

Financial service institutions comply with a dynamic set of rules and directives, automate and integrate compliance systems, react to enterprise risk, and guarantee compliance, e.g. by modelling how individual transactions impact a multitude of risk and compliance measures.
<http://langtechnews.hivefire.com/articles/share/130067/>

17. LT enabled search and analytics for high-end financial discovery applications

Thomson-Reuters EIKON
<http://thomsonreuterseikon.com/about/>
<http://langtechnews.hivefire.com/articles/share/121144/>

18. PCI DSS compliance with speech technology

Making financial settlements more efficient and less costly, but still compliant with the Payment Card Industry Data Security Standard (PCI DSS), an industry requirement for all organisations that store, process or transmit credit or debit cardholder data, [EckohPAY](#) (UK) using speech technology
<http://langtechnews.hivefire.com/articles/share/16732/>

19. Using automated trademark translations for compliance with WIPO Nice Agreement

TMpro based on ESTeam Translator© technology
<http://www.esteam.se/activities/research/tmpro.html>

LT in Sales & Marketing

20. LT optimisation of advertising campaigns and ad targeting

Advertising and automatic content discovery platform from [Leiki](#)'s (Finland) based on patented technology using uniquely detailed automatic content analysis and real-time learning of individual purchase intentions; [Admantx](#) semantics-based contextualisation technology to optimise ad placement using underlying emotional response to content matches.

<http://langtechnews.hivefire.com/articles/share/126273/>
<http://langtechnews.hivefire.com/articles/124995/language-technology-companies-among-european-seal/>

21. Using LT to ensure brand security

The Sense Engine from [Crystal Semantics](#) (UK), built on one of the largest language engineering projects ever undertaken; [AdPepper](#) (Germany) SiteScreen technology.
<http://langtechnews.hivefire.com/articles/share/26795/>

<http://www.crystalsemantics.com/technology.htm>
<http://langtechnews.hivefire.com/articles/share/26794/>

22. Improving marketing strategies, market and competitive intelligence using LT

The **Cribis** (Italy) sentiment monitoring and analysis service built on the Cogito platform from **Expert System** (Italy)

<http://langtechnews.hivefire.com/articles/share/122623/>

LT in Operations & Performance

23. Using LT to provide communications Service Providers with accurate maps of customer behaviours

Deriving customer profiles using raw customer data from business and operational support systems in telecoms companies (BSS/OSS) using semantic technology from **Ontology Systems** (UK)

<http://langtechnews.hivefire.com/articles/share/129854/>

24. Providing adaptable Enterprise speech recognition by integrating speech technology with text analysis

The EML Transcription Platform from **EML European Media Lab** (founded by Klaus Tschira, a co-founder of SAP)

<http://langtechnews.hivefire.com/articles/share/110915/>

25. Using an expert system for Condition-Based Maintenance, monitoring and problem resolution

<http://langtechnews.hivefire.com/articles/share/26325/>

<http://langtechnews.hivefire.com/articles/share/26145/>

26. Using speech technology for improved accuracy in warehousing management solutions

<http://langtechnews.hivefire.com/articles/share/111618/>

<http://langtechnews.hivefire.com/articles/share/114835/>

<http://langtechnews.hivefire.com/articles/share/70300/>

<http://langtechnews.hivefire.com/articles/share/28657/>

27. Speech and document capture for legal firms

<http://langtechnews.hivefire.com/articles/share/100948/>

28. Streamlining Enterprise document handling with multilingual handwriting recognition and digital document scanning

Technology from **Vision Objects** (France); **A2iA** (France)

<http://langtechnews.hivefire.com/articles/share/129996/>

<http://langtechnews.hivefire.com/articles/share/27332/>

LT in Publishing & Knowledge

29. Automatic annotation of content to make search more relevant

The Agence France-Presse (AFP) strategic partnership with **TEMIS** (France) for use of their flagship Luxid® Content Enrichment Platform to add multilingual semantic enrichment to AFP's editorial console; AFP publishes 5,000 stories a day in English, French, Spanish,

German, Portuguese and Arabic; an implementation for scientific publications has been developed with IOP, a world leader in electronic publishing for the scientific community.
<http://langtechnews.hivefire.com/articles/share/125690/>
<http://langtechnews.hivefire.com/articles/share/124872/>

30. Generating semantic metadata for taxonomies and schemas to support information architectures

The Smart Content Framework™ from [Concept Searching](#) (UK) that includes auto-classification and taxonomy management software
<http://langtechnews.hivefire.com/articles/share/114085/>

31. Creating customised Enterprise translation engines to improve document translation and multilingual content handling

Developments by [Pangeanic](#) (Spain), [Applied Language Solutions](#) (UK), and [Moravia](#) (Czech Republic)
<http://langtechnews.hivefire.com/articles/share/118884/>
http://www.youtube.com/watch?v=SHAEAI6ctEY&feature=player_embedded

32. Supporting global, multilingual publishing

The Global Information Management solution from [SDL](#) (UK) integrates translation automation tools (translation leveraging, machine translation) with document and content management systems, and web publishing platforms, to support large-scale multilingual publishing requirements
<http://langtechnews.hivefire.com/articles/share/114950/>
<http://www.sdl.com/en/about-us/about-sdl/corporate-resources/2011-11-15-webinar-recording-part-2-a-vision-of-global-information-management-at-hach.asp>

33. Improving Enterprise performance on the *Industry Information Index* using LT

The Industry Information Index is a benchmark that measures "information efficiency" (search effectiveness, information categorisation, fragmentation, etc.); the Content Intelligence Platform from [SmartLogic](#) (UK) complements an organization's investments in Enterprise Search, Business Intelligence and Content Management to improve index scores.
<http://langtechnews.hivefire.com/articles/share/131745/>

34. Using LT to add value to Enterprise news and publishing activities

RSS-to-Podcast service provided by [Interactive Voice News](#) (Poland); users can monetise their RSS news feeds by converting them to audio formats using speech output technology and broadcasting them to mobile devices with embedded advertisements. (IVN is currently using Loquendo/Nuance speech technology, but is evaluating speech output technology from another polish company, [IVONA](#).)
<http://langtechnews.hivefire.com/articles/share/119624/>

II. INTELLIGENT SERVICES

Language Technology drives new-generation services of all types, as the consumerisation of technology builds on cloud platforms, mobile devices, and innovative user interfaces in everything from commerce to government to social events and networks. Today, governments have to do more with less and adopt LT for more efficient and effective services to citizens; they are just beginning to address the potential for innovation through services based on the semantics of Open Linked Data. Today, companies are pushing the boundaries of service delivery with more targeted product

information and smart automated customer support environments. Tomorrow all online services, and the systems that support many retail environments, will be grounded in linguistic knowledge and LT-based functions to manage and optimize relationships with customers, consumers, and citizens – wherever they live, whatever language they speak.

LT for Commerce & Customers

35. Supporting customers in retail environments with LT

The linguistic and semantic capacities of Business Search from [Sinequa](#) (France) facilitates customer choice for retail companies.

<http://langtechnews.hivefire.com/articles/share/132229/>

36. Complementing customer service agents using LT in real-time chat and social media.

[@Nurph](#) (UK) is an online AI robot using real-time chat to enhance customer support and improve problem-solving; if your Twitter followers are tweeting away with you about customer support issues, your robot can tweet back to them on Twitter or chat with them in your Nurph Channel; questions are answered quicker, problems are solved more easily, and the support is there 24/7.

<http://langtechnews.hivefire.com/articles/share/130133/>

37. Using LT to measure the customer experience for real-time feedback and response

Eurostar deployed the [Fizzback](#) (UK) sentiment analysis solution interacting with travellers using SMS surveys.

<http://langtechnews.hivefire.com/articles/share/129979/>

38. Using chat translation in the multilingual call centre

<http://langtechnews.hivefire.com/articles/share/26570/>

<http://langtechnews.hivefire.com/articles/share/11108/>

<http://langtechnews.hivefire.com/articles/share/11844/>

39. Using semantic collaborative filtering to add intelligence to online consumer services

The [FACTFinder](#) technology from [Omikron](#) (Germany), who have developed and launched full semantic search functions on Germany's leading travel site, [weg.de](#); the system is also being used by the German division of Thomas Cook in their online travel agency.

<http://langtechnews.hivefire.com/articles/share/119319/>

<http://langtechnews.hivefire.com/articles/share/115994/>

LT for Government & Citizens

40. Exploiting open data from public administrations for innovation

The CloudView search engine from [Exalead](#) (France) is embedded in data.gouv.fr, the Open Data platform for the French government's [Dataconnexions](#) programme that encourages re-use of public data; Exalead will encourage and assist innovative French start-ups in creating, developing, and marketing new applications based on public data.

<http://langtechnews.hivefire.com/articles/share/128621/>

<http://www.data.gouv.fr/>

41. Cloud services based on open-data public legal information systems

<http://langtechnews.hivefire.com/articles/share/75101/>

42. Using public data for evaluation and assessment

Using open data provided by the EU website CORDIS to compute and display statistics on the participation and level of funding of EU research grant recipients.

<http://researchranking.org/index.php>

43. Developing core vocabularies to support eGovernment interoperability

The European Commission and the World Wide Web Consortium cooperate to develop core vocabularies that will eventually transform the ability to deliver information and services to citizens and businesses across the EU using semantic technology.

<http://langtechnews.hivefire.com/articles/share/117237/>

44. Support for cross-language access to information for citizens who speak less commonly used languages

Lucy Software (Germany) has developed a Basque-language machine translation system for the Basque Country public authority.

<http://langtechnews.hivefire.com/articles/share/126308/>

45. Using semantics to link free geo-data with licensed data for new location-based applications

fluid Operations (Germany), the leading provider of innovative enterprise cloud and data management solutions based on semantic technologies, who are working with the German neo-neighbourhood project; the fluid Operations Workbench is a platform for Linked Data and Big Data management and solution development using semantic technologies

<http://langtechnews.hivefire.com/articles/share/124506/>

LT for Campaigns & Big Events

46. Real-time monitoring of radio and television broadcasts during political campaigns

TVEyes uses the Audioma system from **PerVoice** (Italy), which was developed from core speech technology research at Bruno Kessler Foundation and delivers highly accurate transcripts covering UK English, US English, German, Spanish, Italian and Arabic, with Turkish and Russian to be added in 2012.

<http://langtechnews.hivefire.com/articles/share/101526/>

47. Translating social media in political campaigns

Spanish translations of @Obama tweets by **Transfluent** (Finland) who provide social media translation services; a division of XIHA who developed the world's first multilingual social media platform and operates XIHA Life, an online community targeted at people who use multiple languages in their everyday lives.

<http://langtechnews.hivefire.com/articles/share/126182/>

48. "Online Anthropology" tools used to track brand impact at international events

Visa used language analytics for social media monitoring at the Beijing Olympics.

<http://langtechnews.hivefire.com/articles/share/120203/>

49. Translation automation for global events such as the Olympics

ESTeam (Sweden) provided translation technology for the Beijing Olympics.

III. INTELLIGENT PERSONAL MEDIATORS & HELPERS

Language Technology in services is complemented by “personal” language technology embedded in the devices and interfaces of users. Today speech interfaces are relatively common (at least in major European languages), the use of online avatars is exploding, there are dozens of personal assistant and translation apps for mobile devices, and there is growing interest in the potential for intelligent physical robots as personal companions and helpers. Tomorrow consumers will expect integrated support for finding, using and communicating information in familiar, device-neutral modes, without language barriers.

LT in Avatars, Robots & Digital Assistants

50. Inventing the next generation of user interfaces by combining language technologies

AI-based chatbot from [Existor](#) (UK) with the speech technology of [Novauris](#) (UK) - to create intelligent conversational personal assistants
<http://langtechnews.hivefire.com/articles/share/121083/>

51. Creating naturalistic voices for avatars in simulation and gaming

The [CereProc](#) (UK) emotionally rich voices used in Fanchinima technology to turn Fan Fiction into animated movies; a variation on machinima, the use of real-time 3D computer-graphics rendering engines to create a cinematic production
<http://langtechnews.hivefire.com/articles/132230/fanchinima-and-cereproc-partner-to-create-characte/>
<http://fanchinima.blogspot.co.uk/>

52. Automatic translators in personal chat

[ABBY](#) (Russia) TextGrabber + Translator
<http://langtechnews.hivefire.com/articles/share/34682/>
<http://langtechnews.hivefire.com/articles/share/43110/>

53. Speech-enabled set-top boxes

Talking TV system developed by [Ocean Blue Software](#) (UK), which voices on-screen information, including programme guides and menus, uses human speech to guide users with eyesight impairment through the numerous pages of TV information and programmes
<http://langtechnews.hivefire.com/articles/share/113752/>

54. LT-enabled robots as co-workers and co-inhabitants

Intelligent robots can collaborate intelligently with people, leveraging their relative strengths in the planning and performance of a task, can offload compute-intensive tasks like image processing and voice recognition
<http://langtechnews.hivefire.com/articles/share/132200/>

55. Speaking autonomous mobile robots

Describe their tasks as they do them using speech technology; Enables an effective interactive experience between humans and the mobile robots they work with
<http://langtechnews.hivefire.com/articles/share/124758/>

56. Speaking robots as playmates, helpers

Robots as social beings
<http://langtechnews.hivefire.com/articles/share/131020/>

57. Robots built on smartphone technology with programmable speech

<http://langtechnews.hivefire.com/articles/share/68193/>

58. Intelligent retail robots, shopping assistants using LT

<http://www.i4u.com/2012/02/ipad/bay-state-robot-developers-test-shopping-assistant>

LT for Personal Productivity

59. Personal desktop and Web translators

[SDL Easy Translator](#), [Morphologic](#), [Linguattec Personal Translator](#)
<http://langtechnews.hivefire.com/articles/share/13992/>

60. Phone-based dictation for cloud storage and automatic transcription

<http://langtechnews.hivefire.com/articles/share/129236/>

61. [Personal Voice Readers](#)

[Linguattec Voice Reader](#)

62. [Next-generation multilingual text processing](#)

[Multilingual text processors from **Infovole** \(Germany\), Textkraft, Schreibkraft, and Easy Writer with full language features including the magic “EU” button that sets all diacritical marks and accents](#)
<http://langtechnews.hivefire.com/articles/share/127281/>

LT in Searchers & Recommenders

63. Curing "infobesity" (extreme information overload) with smart apps

The [Mobiles Republic](#) (France) TagNav multilingual semantic search technology, which supports 300 publishers and captures 100 million page views a month across Europe and the US

<http://langtechnews.hivefire.com/articles/share/131157/>

64. Automatic translators for travellers

<http://langtechnews.hivefire.com/articles/share/27766/>
<http://langtechnews.hivefire.com/articles/share/48508/>

65. Semantic Web search

Using LT to help people to find specific information, rather than documents that might contain that information, e.g. the structured search engine from UK start-up [Sehrch](#), which finds semantic web objects

<http://langtechnews.hivefire.com/articles/share/123793/>

66. [Enabling rich-media search, to improve access to audio and video resources on the web](#)

[The world’s largest video search engine **Blinkx** \(UK\) uses visual analysis and speech recognition; Blinkx powers AOL video search and attracts 55 million U.S. video searchers a month](#)
<http://langtechnews.hivefire.com/articles/share/113347/>

LT in Cars & Phones

67. Using a natural language engine to solve input problems for mobile devices

Mobile text-inputting app from [SwiftKey](#) (UK)
<http://langtechnews.hivefire.com/articles/share/121814/>

68. [Chat translation in smart phones](#)

<http://langtechnews.hivefire.com/articles/share/130087/>
<http://langtechnews.hivefire.com/articles/share/24178/>

69. Providing “hands-free” services in cars with speech input/output technology

[Dial2Do](#) (Ireland) who provides cloud voice services for handsfree devices, with an app that allows you to create reminders, send texts, listen to and send email, and access your favourite 3rd party services - all while keeping your hands on the wheel and your eyes on the road; the technology is embedded in several headset products, e.g. the Plantronics Vocalyst and VXi's BlueParrot
<http://langtechnews.hivefire.com/articles/share/113356/>

IV. INTELLIGENT HEALTHCARE

Language Technology in healthcare and the life sciences is one of the fastest growing parts of the LT industry. Managing complex scientific data on the one hand and equally complex clinical data on the other is a compelling challenge, made even more so by the need to communicate effectively with patients. Today LT makes physicians and healthcare delivery organisations more efficient. Today pharmaceutical and bio-science companies mine scientific data using LT for faster and safer drug development. Today patients expect clear diagnostic information, and efficient communication with practitioners. Tomorrow healthcare and life sciences will share seamless access to medical and scientific data using commonly accepted models mapped to terminology in many languages, used by many different types of systems. Tomorrow patients will expect more control over their personal medical data, and the ability to transport and use it in the ways they want, to communicate it, and about it, across language barriers, all in secure and reliable environments.

LT for Doctors & Patients

70. Mitigating patient-care risks with semantic patient data in Electronic Health Records, e.g. context management

Systems can use the 'subject' of data in one application to point to data resident in a separate application that refers to the same subject, e.g. a patient.
<http://langtechnews.hivefire.com/articles/share/12299/>

71. Using LT to combat the spread of diseases with syndromic health surveillance

[Gavagai](#)'s (Sweden) multilingual concept-based tracking of disease symptoms on social media
<http://langtechnews.hivefire.com/articles/share/126848/>

72. Controlling access to Electronic Medical Records (EMR) using voice biometrics

<http://langtechnews.hivefire.com/articles/share/20422/>
<http://langtechnews.hivefire.com/articles/117989/the-value-of-voice-biometrics-for-emr-tablet-users/>

73. Improving service levels to patients with better medical-records handling and faster patient communication

Voice Technologies (UK) Clinical Document Production solution developed in collaboration with the UK National Health Service; the NHS has announced a procurement framework enabling NHS bodies to procure quality digital dictation and voice recognition solutions efficiently and economically, and another UK speech technology company, **BigHand**, is an authorised supplier

<http://langtechnews.hivefire.com/articles/share/123896/>

<http://langtechnews.hivefire.com/articles/share/121108/>

74. Crossing language barriers to enable better communication between doctors and patients

The UniversalDoctor Speaker app developed by **Universal Projects and Tools** (Spain), which translates between nine European languages, and enables people to take medical records and treatment information (such as prescriptions) when they travel, and to translate that information for local practitioners

<http://langtechnews.hivefire.com/articles/share/121249/>

75. Improving health outcomes using LT-based communication systems

<http://langtechnews.hivefire.com/articles/share/11222/>

76. Mining medical information sources with LT to improve clinical diagnosis and treatment

ClinicalKey from **Elsevier** (Netherlands), with full-text access to 400 journals, 700 books and 2,500 procedural videos; **UpToDate** from **Wolters Kluwer** (Netherlands), which offers original reviews of medical literature from 4,800 experts, on 9,000 topics in 19 specialities spanning 97,000 pages of text

<http://langtechnews.hivefire.com/articles/share/114456/>

77. Converting clinical narratives (written or spoken) into structured clinical data using LT

<http://langtechnews.hivefire.com/articles/share/124764/>

78. Enabling pharmaceutical companies to communicate with patients using speech technology for compliance and safety

<http://langtechnews.hivefire.com/articles/share/18226/>

79. Ensuring interoperability in nation-wide healthcare management systems using LT

Mondeca (France)

<http://mondeca.wordpress.com/category/partager/web-semantique/>

80. Semantic knowledge management for clinical data to enable automatic evaluation for physicians

The Dermatological Clinic of Freiburg University Hospital uses the **Averbis** Search Platform to research its clinical data, facilitating the location of medical reports; 94% of doctors said the Averbis system was a considerable facilitation of their daily clinical work, and 100% see significant time saving in their scientific work as a positive effect.

<http://langtechnews.hivefire.com/articles/share/132838/>

LT for Science & Discovery

81. Re-using life sciences knowledge with LT to improve innovation

The I2E NLP text mining platform from [Linguamatics](#) (UK) extracts complex life-science knowledge from medical literature and large-scale experimental data, making it re-usable on a greater scale and speed to improve innovation in pharmaceuticals and healthcare

<http://langtechnews.hivefire.com/articles/share/127938/>

82. Shorter drug development cycles, improved drug safety using semantics and text mining

<http://langtechnews.hivefire.com/articles/share/115861/>

<http://langtechnews.hivefire.com/articles/share/125246/>

83. Evaluating patient healthcare outcomes in social media using LT

<http://langtechnews.hivefire.com/articles/share/102997/>

<http://langtechnews.hivefire.com/articles/share/44729/>

84. Improving collaboration in medical research through indexed databases of research

[Maven Semantic](#) (Ireland)

<http://langtechnews.hivefire.com/articles/share/39538/>

85. Automatic extraction of information from scientific papers

<http://langtechnews.hivefire.com/articles/share/108237/>

86. Multilingual semantic search for pharmaceutical companies

<http://averbis.de/en/pharmaceutical>

V. INTELLIGENT SKILLS DEVELOPMENT

Language Technology enables multilinguality and the development of language skills needed by EU citizens, and workers in the global economy; LT also supports learning environments in general. Today language-learning products are being transformed through the use of innovative LT features. Today training and educational systems of all types are being enhanced through speech interfaces, and the intelligent matching of learning materials and learning styles. Tomorrow multilinguality and LT will be baked into the digital environments of citizens, workers and consumers, making language learning and cross-language communication a rich mix of personal and digital intelligence.

LT in Education & Training

87. LT support for learning environments

Literacy and language support technology from [Texthelp](#) (UK) deployed for math teaching

<http://langtechnews.hivefire.com/articles/share/126602/>

88. Adapting education and training materials to the learning habits of individuals using LT

Research currently being carried out by [Blinklearning](#) (Spain) for its e-tutoring platform

<http://langtechnews.hivefire.com/articles/share/6715/>

89. Providing automatic transcription and translation of video lectures to improve access to educational resources

EML European Media Laboratory is developing fast methods to adapt language models to support transcription (in the [TransLectures](#) project) being tested in English and Slovenian within VideoLectures.NET, and in Spanish within the poliMedia web portal; providing translations from Spanish and Slovenian into English and from English into French, German, Slovenian and Spanish

<http://langtechnews.hivefire.com/articles/share/118955/>

90. Improving the use of synthesised speech output in educational products by adapting speech engines

The Norwegian supplier of software for reading and writing support [Lingit adapts synthetic children's voices](#).

<http://langtechnews.hivefire.com/articles/share/115939/>

91. [Multilingual adaptation of e-learning materials](#)

[Datango](#) (Germany), acquired by SAP

<http://langtechnews.hivefire.com/articles/share/85411/>

92. [Social simulation for learning](#)

<http://langtechnews.hivefire.com/articles/share/121780/>

LT for People & their Languages

93. Language learning in corporate environments

The changing demographics of the global workforce – including the imbalance between needed and available skills – must be addressed promptly to maintain continuity. A thorough succession management strategy includes staff language and communication training, e.g. the Speexx system from [DP](#) (Germany)

<http://langtechnews.hivefire.com/articles/share/131944/>

94. LT in literacy support products

The [LingApps](#) (Denmark) text editor for people with language disabilities; [Recite](#) (UK) that provides speech output technology for dyslexics.

<http://langtechnews.hivefire.com/articles/share/132294/>

http://www.youtube.com/watch?v=KEiOl5Tyrfk&feature=player_embedded

<http://langtechnews.hivefire.com/articles/share/127931/>

95. Enabling better language learning with LT

The Dexway language learning tablet application from [Computer Aided eLearning](#) (European headquarters in Spain), with voice recognition technology that allows automatic pronunciation evaluation, and simultaneous evaluation of tracking and progress from any computer.

<http://langtechnews.hivefire.com/articles/share/120571/>

96. Adding smart content to language learning systems to make them more engaging to learners

Irish start-up [Lingle](#) sources relevant teaching materials online using linguistic analysis

<http://langtechnews.hivefire.com/articles/share/120263/>

http://www.youtube.com/watch?feature=player_embedded&v=ZKNX113QTZo

97. Language learning using QR codes (barcodes)

[Lingibli](#) (Slovakia)

<http://langtechnews.hivefire.com/articles/share/70141/>

<http://langtechnews.hivefire.com/articles/share/73764/>

98. Using crowdsourcing and the Web for language learning

[Busuu.com](#) (Spain) and the DuLingo initiative

<http://langtechnews.hivefire.com/articles/share/92188/>

http://www.monstersandcritics.com/tech/news/article_1650259.php/Using-apps-and-the-net-to-learn-a-new-language

<http://langtechnews.hivefire.com/articles/share/104318/>

99. [Using LT for subtitling rich media to enhance language acquisition](#)

<http://langtechnews.hivefire.com/articles/share/93230/>

100. Language learning on mobile devices for military personnel

<http://langtechnews.hivefire.com/articles/share/12814/>

101. Using images in language teaching

<http://langtechnews.hivefire.com/articles/share/8957/>

102. Speaking dictionaries on the Web, to aid pronunciation

<http://langtechnews.hivefire.com/articles/share/9044/>