



Accredited Innovation Clusters





Foreword

A decisive step in the changing of the world economy during the past decades has been the appearance of network economies and enterprise co-operation. Network members realised that they can massively benefit from co-operations; a significant profit growth can be reached by economies of scale growth realised by sharing of capacities, networking flexibility and sharing of expenditures.

Establishment and effective operation of network-co-operations and clusters are of utmost importance, especially for SMEs, as a vast majority of them is unable to enter the extra-regional or the international market individually, however, having formed network co-operations they have a better chance to enter the global arena.

It is true that in comparison with Western-European countries, Hungarian cluster development has not got such a rich history yet, nevertheless, it can already be stated that the last decade has seen a major improvement in clustering and

cluster developments. Following the appearance of the New Széchenyi Plan, the cluster accreditation system which had been operating since 2008, witnessed a major change. The goal of the Accredited Innovation Cluster tender is to select network co-operations which have a decisive employment impact, exhibit intensive export and innovation performance and are able to implement development projects, as well as to reach outstanding performance in a regional scenario.

Currently 21 Accredited Innovation Clusters operate in Hungary. These clusters have undergone an excessively strict accreditation process to obtain their certification. Majority of these clusters simultaneously host universities, research institutions, large enterprises, as well as micro-small enterprises with strong innovation and high growth potential. During the last 5 years, these closely co-operating economic actors have implemented 206 joint R&D&I projects to a total expenditure of EUR 266 million, and by doing so, they have successfully motivated co-operation for the representatives of the research, large enterprise and national SME sector. Given their unique characteristics and composition, the innovation clusters could significantly contribute to promote efficient knowledge and technology transfer co-operations, as well as to extend the start-up eco-system through these joint projects.

This publication introduces the 21 Accredited Innovation Clusters, which operate in the health industry, IT, biotechnology, energetics, construction, wood industry, machine industry and environment industry.

I trust the clusters introduced in the publication will serve as good examples for both national and international co-operation, and will further amplify the role of network economy.

Gyula E. Barta
CEO



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3P Plastic, Packaging and Printing Cluster

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The 3P Plastic, Packaging and Printing Cluster was established in 2007 with 27 founder members, calling up the plastic industry, packaging technology and printing enterprises in the South Great Plain Region in Hungary to act jointly. After 2009, the cluster was again awarded the title of Accredited Innovation Cluster in 2012. Renewed accreditation was grounded mainly on the economic development effect of the automotive industry establishing itself in Kecskemét. The settlement of Mercedes-Benz and its suppliers means new opportunities for the 3P Cluster (being a potential economic network of the region having outstanding capabilities and competence, professional knowledge base and industrial R&D experiences), since the expectations and needs of the automotive industry and the related sectors should be covered.

The member companies of the cluster are active in the following industries: printing and other service provision; manufacturing of chemical substances; manufacturing of rubber and plastic products; manufacturing of machines, mechanical equipment; waste management. The companies active in the plastic industry – although being in the same industrial sector – pursue very diverse activities. The products manufactured by the enterprises include the products of the vehicle industry (within this the automotive, and the vehicle industry for cargo and passenger transport), the construction industry, agriculture, food packaging, cosmetic and pharmaceutical industry, electronic industry, and the household mass products.

At present the cluster has 34 members, from which 28 members are considered as SMEs, 3 members as large companies (Kunplast-Karsai Műszaki Műanyagipari Zrt., PEMŰ Műanyagipari Zrt., ContiTech Rubber Industrial Kft.), 3 members (Faculty of Mechanical Engineering and Automation of the Kecskemét College, Moholy-Nagy University of Art and Design, Hungarian Plastics Industry Association) as non-profit organisations. The total sales of all the member companies in 2011 was HUF 61.6 billion (EUR 221 million), and the average statistical number for the same year was 1,890.

The 3P cluster works in close cooperation with the Great Hungarian Plain Industry Development (AIPA) Cluster and the Hírös Supplier (HBK) Cluster. At the end of 2012, Mrs. Róbertné Alter,



President of 3P Cluster and Mr. István Lepsényi, President of AIPA Cluster and HBK Cluster signed a cooperation agreement. This deed was aimed at creating a strong inter-cluster cooperation in the Kecskemét economic area – having been declared as a Priority Automotive Centre – thus enabling new job creation, high-volume developments, promoting the dynamic growth of the entire region.

Cluster members are amongst others:

- Bio-Sales Bt.
- Deltaplast Kft.
- Kaloplasztik Kft.
- Kunplast-Karsai Zrt.
- Pemű Zrt.
- Unitron Kft.
- Faculty of Mechanical Engineering and Automation, Kecskemét College

Project Plans:

1. Utilising plastic materials in vehicle manufacturing in an increasing proportion
2. Permanent coating of plastic processing tools with anti-adhesive materials containing also nano material

3. Development of polymer mixtures and products based on natural materials
4. Research and development of modern structural materials (for vehicles)





Alliance Informatics and Innovation Cluster

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The cluster was established on 1 June, 2007 by 18 members. The activities of the cluster cover the entire country. In December 2011 the cluster qualified as an Accredited Innovation Cluster for additional two years.

The cluster is primarily engaged in Machine-to-Machine (M2M) communication based business solutions, development of sports assistance systems, elaboration of healthcare industry support systems and e-learning.

M2M business solutions and applications still mean a new market – their existence is greatly assisted by mobile communication technologies. One of these solutions' main characteristics is that continuous and well-forecast development of mobile communication (bandwidth and coverage expansion, price cuts) will ensure the connection of devices (measurement instruments, probes etc) into networks in an increasing number of business areas. The cluster aims to create innovative products and healthcare applications which can help generate profit for cluster members and other market actors, and simultaneously, to ensure effective solutions for important healthcare issues (nursing, diagnostics, finance, prevention, adherence, etc.). The cluster provides automated recording-editing software to edit and complement visual materials with further information.

Knowledge base necessary for effective cooperation overlaps several areas, and as such it includes large system integrating companies, consultancy companies, module specific enterprises and knowledge centres. The cluster currently has 47 members, so joint projects and the successfulness of the cluster are supported by 43 SMEs, TEVA Hungary, Pannon University, University of Szeged and 1 research institute. Best performing member companies from business point of view were TEVA Hungary, Delta Informatika Zrt., HUMANsoft Electronics, Albacomp RI Ltd and AQUIS Zrt., their joint revenue in 2011 was HUF 277 billion (roughly EUR 994 million). In 2011, total number of individuals employed by all cluster member companies was 3,758.



Implemented joint projects:

- Prototype development of an accreditable water quality distant metering system, 2009
- Web-based broadcasting using IP cameras, 2009
- 'Dynplaza' – Framework system for serving GPS-based services - planning and implementation of the adjoining data analysis centre and service functions, 2010
- 'IntelliPort' – Scalable distant metering system for regional energy suppliers
- 'MobilGov' – a mobile e-administration system making possible full electronic administration of local governments, 2009
- New generation complex travel information and ticketing system developed in Hungary, 2011
- 'ICollWare' – Horizontal framework system assistance to the administration model of the work of forensic experts, development of a sample system in the area of medicinal forensics by the application of modern 3D modelling and data recording technologies, 2010

Joint projects launched in 2012:

- Mobile Multimedia Based Knowledge Transfer (Hungarian acronym: MMATT). The aim of the project is the development of a system providing a mobile multimedia-based educational toolkit

- BEKUTA – Research of technologies enhancing therapeutic patient adherence, development and marketing of the necessary technical toolkit and service package
- Improvement of the Alliance Informatics and Innovation Cluster for further efficient cooperation of cluster members

Further project plans:

1. Smart-Health healthcare
2. Smart-Sec security
3. Smart-Green environmental protection
4. Smart Sport sports informatics
5. Test system to be used in evaluation algorithms and drug tests, capnography tools
6. mGBL, mobile phone based learning
7. ONTEX, online education
8. VM3, MM knowledge transfer
9. Drug effect and drug application knowledge transfer system for physicians





ArchEnerg Accredited Regional Cluster for Renewable Energy and Building Trade

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Cluster Manager:	Henrik Hidvégi, Mr
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ArchEnerg Cluster was established by four South Hungarian small enterprises in March 2007. Other actors also saw a chance to break out with this co-operation, hence, in 2008, the cluster already had 32 members, and it was then when they submitted their first accreditation proposal. Since then the cluster qualified as an Accredited Innovation Cluster on all occasions, when it submitted such a proposal.

ArchEnerg complex activities encompass a whole array of renewable energetics. Such a broad spectrum of activities can only be executed at cluster level, by utilising synergy effects of combined cluster member competences.

Number of members has been continuously increasing during the past couple of years, and this on the one hand, led to a significant extension of the scope of cluster activities, while on the other hand, the clusters' economic and advocacy role has also intensified. There are currently 85 members in the cluster, from which 77 are SMEs, 5 are large enterprises and 3 are scientific institutions (Hungarian Association of Renewable Energy Sources, University of Szeged, Békéscsaba Regional Training Centre).

The cluster aims at developing in the following two main areas: the cluster strives to integrate external requests as its economic influence is increasing, and aims at improved quality of member relations by new business co-operations and joint projects.

Cluster members are regional and national experts of their professional field of activity. The total revenue of SMEs in 2011 exceeded HUF 54 billion (roughly EUR 194 million). In 2011, cluster member companies, in total, employed 7,123 individuals. The main activity of the cluster is planning, implementing and permitting investments related to energy efficiency and renewable energies – solar collector, solar heating, heat pump and biogas systems, biomass furnaces; construction, electric works, insulation, doors and windows, energy efficient lighting systems; feasibility studies, return calculations, energy audit, recommendations on energy consumption improvement.

Objectives of ArchEnerg were outlined in harmony with Hungary's renewable energy utilisa-



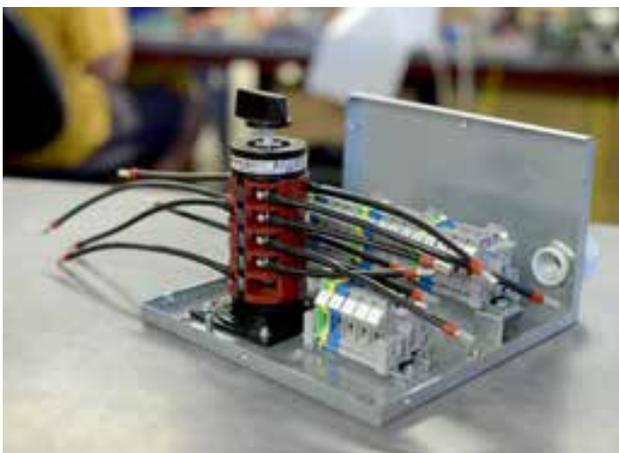
tion action plan and New Széchenyi Plan Green Economy Development Programme. In light of this, ArchEnergy aims at establishing and operating an internationally acknowledged innovative and green energy co-operation, aims at establishing a cluster manufacture capacity related physical and human innovation background and improvement of the cooperation by developments implemented by the cluster.

Founding members:

- GOBOKER Kft.
- NARIZ Kft.
- BAUTENDER ZIEGEL Kft.
- PROVILL 3000 Bt.

Project Plans:

- Implementation of complex energy efficient systems
- Development of intelligent town energetics systems
- Development and optimisation of passive building technology.
- Production of energy efficient building materials with regional traditions
- Integrated biomass systems
- Establishment of a renewable energy incubator house
- Development and streamline of energy conversion solutions
- Renewable energy based power plants





Biotechnology Innovation Base Cluster

The foundation of this cluster located in Southern Transdanubia was based on the co-operation of five small enterprises in the nineties. Cluster co-operation agreement was signed by 10 founding members on 10 December, 2005, and in 2008, already with 16 members, they were awarded the Accredited Innovative Cluster status. The cluster focuses on healthcare industry, medical biotechnology, in vitro medical diagnostics devices, especially immune diagnostics related development, manufacture and distribution.

Members strive to utilise products families and supplementary devices to the full. Cluster level co-operation ensures high level synergy among individual products, as well as provides the necessary background, and in addition, it guarantees the advantages stemming from joint solutions of resources and outputs. Main industry framework is defined by the cluster's long term goal to develop so-called "orphan" products to cure and diagnose rare diseases. Industry product development is SME oriented which is in synergy with Biotechnology Innovation Base Cluster activities.

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Quality of cluster operation is not only confirmed by outstandingly performing individual cluster members, but the market results of products manufactured as project companies' special solutions in response to tenders. Several new products and product families have been successfully developed, and these items are popular both in the domestic and the foreign market. 2011 year revenue of member companies exceeded HUF 36 billion (roughly EUR 129 million), number of employees was 375.

Founding members:

- Hisztopatológia Kft.
- Immunochem Bt.
- Pannonia Kutatási Park Kft.
- Soft Flow Hungary Kft.
- Szkarabeusz Kft.
- Pathodiagnosztika Kft.
- Forrásvidék Kft.
- ImmunGenomika Kft.
- BIOTECONT Kft.
- Imuno Histicit Kft.

Project plan related product and service groups:

- Immunohistochemistry product family
- In vitro diagnostics flow cytometry reagents
- In vitro diagnostics immune-serology reagents and kits
- In vitro diagnostics laboratory instruments and accessories
- High performance combined laboratory service group
- Alternative animal and in vitro experiment models
- Implantable tissue reinforcement net for abdomen operations
- In vitro diagnostics tools to monitor tissue integration of implantable devices
- Supplementary diet product development

ECOPolis Cluster



ECOPolis Cluster was established by nineteen strategically co-operating partners on 8 August, 2008. The cluster has witnessed considerable development during the past couple of years, it now has 59 members. Since 2010 it qualifies as an Accredited Innovation Cluster, which justifies that all actors of the innovation chain actively participate in the activity of the cluster. Cluster members list 42 SMEs and 6 large enterprises. 2011 revenue of cluster members was HUF 5,525 billion (roughly EUR 19.8 billion), total number of individuals employed by member companies amounted to 10,705.

The main objective of ECOPolis Cluster is to generate and manage high added value, innovative R&D&I&E projects, and to promote the success of such projects with product and technology driven knowledge transfer processes, resource generation and international representation. Developments are based on existing scientific achievements, development demand of the business sector and market breakout points. The cluster places special emphasis on green industry and agriculture technologies, eco-centred energetics solutions, environmental IT and on the spread of sustainable social processes, eco-cycles.

Members of the cluster seek strategic partnership beyond business partnership. Partners ef-

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ficiently assist each other's work in joint product, technology or service development in domestic and international markets for joint successes. As a result of the activities in the cluster partners gain experience and support that in some cases incorporates in financial investments.

Cluster members are amongst others:

- Agroterm Kft.
- Albacomp Services Kft.
- Albacomp SH Szoftverház Kft.
- Anamenra Kft.
- Aqua-Terra Lab Kft.
- Aranybulla Mg. Zrt.
- Ceramdisc Kft.
- Csatári Plast Kft.
- Devecseri Agrokémia Kft.
- DUNACELL Dunaújvárosi Cellulózgyár Kft.
- DUSZÉN Bányászati és Szolgáltatási Kft.
- EURO-OPEN Kft.
- Graboplast Zrt.
- HUMANSOFT Kft.
- INNANO Kft.
- Jáger Prod Kft.
- Kiscelli Kft.
- LSI IT Education Centre Foundation
- MetalCom Zrt.

- MOL Nyrt.
- Nitrogénművek Zrt.
- Nitrokémia Zrt.
- Pannon University
- RD Systems Informatikai Kft.
- Spiller Kft.
- Synergon Integrator Rendszerszolgáltató Kft.
- Municipality of Székesfehérvár
- Toxi-Coop Zrt.
- Municipality of Veszprém
- Wildom Kft.

Project Plans:

- Development and use of a complex waste utilisation and disposal technology
- Software for energetics system improvement
- Measuring air quality by mobile measure network
- CO2 absorption
- Establishment of a mobile language education centre
- Establishment of a small-scale biogas plant
- Technology consultancy and development centre
- Establishment and operation of R&D centres



Goodwill Biotechnology Cluster

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Established in 2007, Goodwill Biotechnology Cluster aims at co-ordinating member capacities to conduct joint marketing activities and joint utilisation of innovative solutions. Founding members are engaged in drug certification, manufacture, distribution, drug market research, image design, promotion materials and web appearance management. Members had been co-operating with each other before signing the co-operation agreement, especially in marketing and sales. The cluster later developed into a larger entity, and now it includes 28 members. Cluster seat is in the town of Szeged, the regional centre of the Southern Great Plain region.

Main cluster activities encompass high innovation content pharmaceutical, health industry and biotechnology products and services, their development, and the increase of domestic and foreign income generated by cluster product sales, as well as channelling services into health tourism to attract foreign clients. Strategic cluster objective is to harmonise operation and development activities of member companies, education and R&D institutions with market oriented projects, and to enhance domestic and international presence of cluster members. Over the course of the past 5 years Goodwill Pharma Park has been established to provide infrastructural background for several cluster members. The park provides favourable conditions for research & development, commercial, service and office activities.

The cluster's economic influence is clearly represented by its nearly HUF 8 billion (roughly EUR 29 million) revenue in 2011.

Founding members:

- Goodwill Pharma Kft.
- Zipper Kft.
- EVISTA Informatikai Kft.

Project Plans:

- Development, manufacture and trade of drugs and other medical items
- Therapy related supplementary diet product family development



- Clinical testing of bone grafts and granules covered with humane albumin
- Development and testing of synthetic bone replacement materials
- Research and development background establishment for tissue construction, technology implementation of actual achievements, and implementation of direct market utilisation
- Manufacture of implants
- Establishment of a healthcare based tourist facility





Great Hungarian Plain Industry Development Cluster

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The Great Hungarian Plain Industry Development Cluster has been established by systematically building out a cooperation network, network of relations between companies, enterprises and associated institutions qualified or not as legal entities, operating in the Kecskemét economic area – having been declared as a Priority Automotive Centre by the Hungarian Government – and being active mainly in the area of vehicle manufacturing for road transport and related areas.

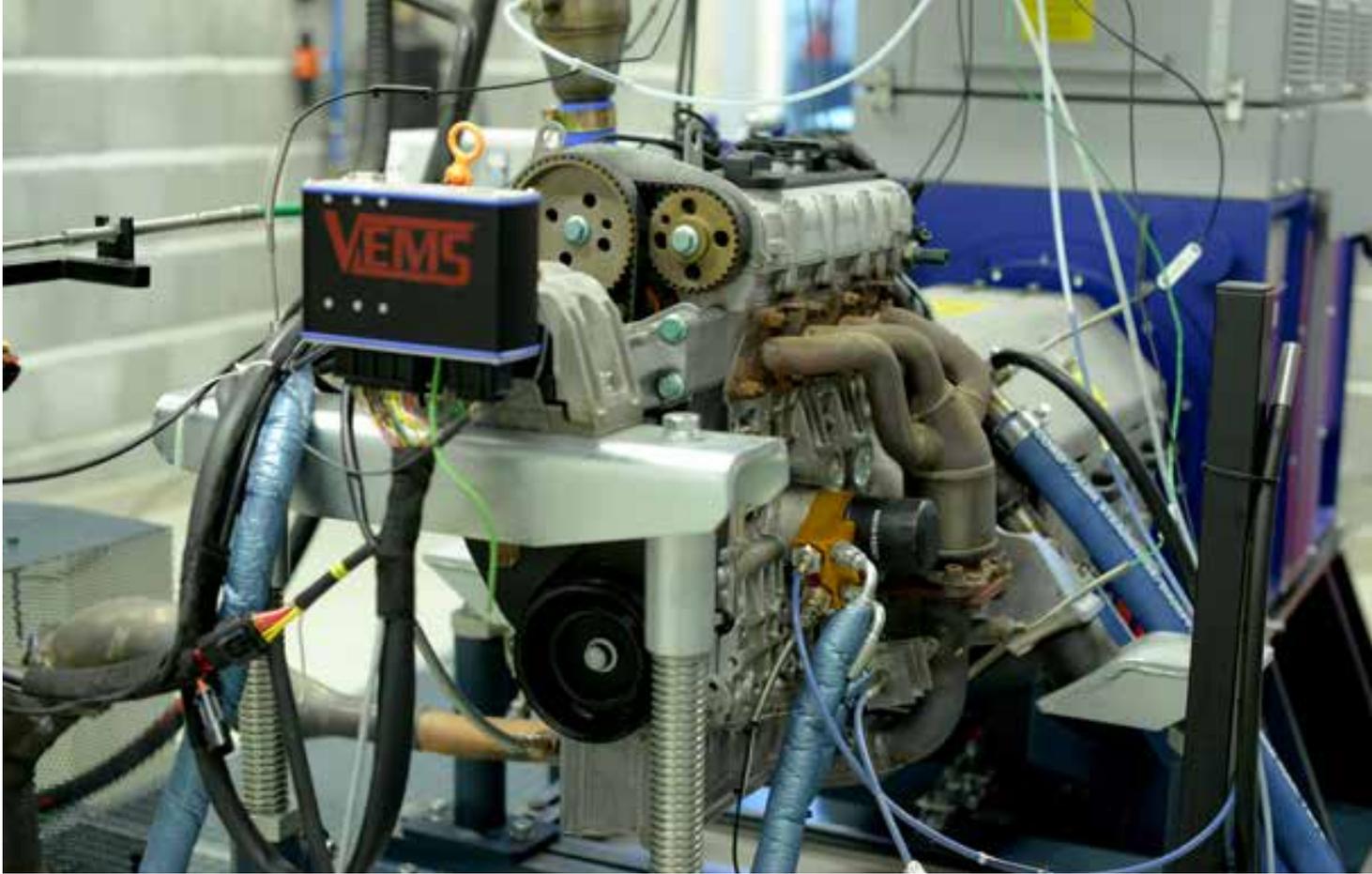
The Great Hungarian Plain Industry Development Non-profit Public Benefit Ltd. – being the gestor organisation of the 3P Cluster and the AIPA Cluster – has initiated the inter-cluster cooperation of the clusters located in the Kecskemét economic area, i.e. 3P Cluster, AIPA Cluster and Hírös Supplier Cluster (HBK), aiming at, apart from ensuring flexibility between the clusters, benefiting from the joint synergies, in order to implement a contingent Inter-cluster cooperation.

The cluster was founded in 2010, at present it has 28 members, and in 2012 it was awarded the Accredited Innovation Cluster title.

The Great Hungarian Plain Industry Development Cluster is a dynamic knowledge-oriented cluster based on co-operation synergies. A cluster that is growing continuously to become an accredited cluster of European importance by structuring, developing and organising the competence of the cluster members into a common programme in order to increase the economic development potential of the region. At the same time it ensures access for its members to specialised developed production factors and R&D results on the basis of intense cooperation, and informal relations.

The long-term strategy developed by the AIPA Cluster identifies the objectives to be attained by 2020 in 3 phases: These objectives are to be implemented along four pillars:

- Vehicle Industry, Science, Education and R&D Pillar
- Industry, Supplier and Enterprise Development Pillar
- Mercedes-Benz Fit Pillar
- Regional and Urban Development Pillar



Cluster members are amongst others:

- Knorr-Bremse Fékrendszerek Kft.
- Kecskemét College
- Kunplast Karsai Műszaki Műanyagipari Zrt.
- BÁCSVÍZ Víz- és Csatornaszolgáltató Zrt.
- Állami Nyomda Zrt.
- Provice Kft.

Project Plans:

1. Development, customisation and propagation of AIPA cluster supplier development solutions and methods
2. AIPA Supplier's Competence Development Centre
3. Regional and sectoral competitiveness development programme



Green Building Innovation Cluster

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The Green Building Innovation Cluster wishes to cover the green building business segment of the entire construction business – construction industry, construction materials industry, services supporting the construction industry – and within this it focuses on the following areas: development of information technology systems of green building processes; development of green building materials and material production technologies; elaboration of the regulating systems of green building; development and network installation of laboratory systems necessary for certification; development of green building ecological, community-organised energy-efficient buildings and sample house systems.

The predecessor of the cluster was the 'Construction Cluster of ECO Communities for the Sustainable Future.' It was established in Q4 2008 from 17 enterprises, research, educational and service provision organisations

The start-up cluster was granted support in 2009 in the open call 'KMOP-1.5.2-2008 Supporting joint investments of clusters of regional importance, creating and developing their services'. As early as during the period of the submitted application, the members of the cluster decided that – due to their innovation activities – they wished to have their cluster accredited subsequent to the required two years of operation, and in the case of a successful accreditation they would start the work under the name 'Green Building Accredited Innovation Cluster.'

The preparation work of the projects of the 'Green Building Innovation Cluster' started at the beginning of 2010, then in February 2012 the name of the cluster was changed to „Green Building Innovation Cluster” by amending the Deed of Foundation and Organisational and Operational Rules of the cluster.

The number of cluster members is 38 at present. There are 8 member organisations and 30 member companies, from which 28 are SMEs, and 2 members are non-profit organisations. The total net sales figure of cluster member companies in 2011 was nearly HUF 30.6 billion (EUR 110 million), from which HUF 29.1 billion (EUR 104 million) was earned by SMEs. The total staff number of member companies was 871, from which 667 people were employed by SMEs.



Cluster members are amongst others:

- Budapest University of Technology and Economics (BME)
- Association of Hungarian Construction Materials Industry (MÉÁSZ)
- Baumit Kft.
- Építésügyi Minőségellenőrző Innovációs Nonprofit Kft. (ÉMI Nonprofit Kft.)
- Masterplast Nyrt.
- Óbuda Újlak Zrt.
- Pentaklíma Kft.

- Development of energy-efficient green pavements
- Development of energy-efficient noise-reducing pavements in the green building economy
- Development of the Green Building Regulation system
- Elaboration of green building certification, innovation laboratory systems
- Development of green building sample house for display
- Elaboration and implementation of green building, ECO community support scheme system, sample project

Project Plans:

- IT support for green building investment, implementation
- Green building IT databases, software, training documents
- Development of green building materials, technologies
- Manufacturing of alpha half-hydrate based plaster composition floor
- Development of alpha half-hydrate and beta plaster based machine plastering
- Development of self-cleaning nano-powder facade systems
- Coating of glass textile net
- Development of facade insulation systems, increasing the ESP flame-proof feature of the systems



Havaria Cluster of Environment and Health Technology

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The Havaria Cluster of Environment and Health Technology was established in 2006 with the participation of companies and organisations that have their common interest in efficiently exploiting the results attained in science and technology to the benefit of the economy, human services and to ensure environmental sustainability. At present the cluster has 41 members, from which 31 are SMEs, 2 are large companies, and 6 are non-profit organisations. The cluster was awarded the Accredited Innovation Cluster in 2010, and this title was renewed in 2012.

The activities of the cluster currently are focused on 3 areas: innovative crop production and feed production technologies and agricultural services; production of innovative foodstuffs; manufacturing of products, elaboration of technologies and services contributing to environmental sustainability. The member companies are active in the following areas, industries: agriculture, forestry, fishing; processing industry; electricity, gas, steam provision, air conditioning. Medium-term goals of the organisation include also the production of functional feed plants, enhancing the production technology of solar cells, and developing of innovative livestock production technologies.

University and non-profit research centres play a significant role in the cluster - they share the results of international quality basic and applied research with the members of the cluster, thus assisting in their development. Non-profit research centres directly participate in the innovation projects, based on their knowledge base they perform laboratory tests, experimental technological developments, and contribute to successful developments with theoretical advice.

In 2010 the total staff number employed by the member companies of the cluster was 2,071, from which 1,546 people were employed by SME members. The total net sales in 2010 amounted to HUF 68.44 billion (EUR 246 million), from which the SME members accounted for HUF 36.47 billion (EUR 131 million).



Project Plans:

- Innovative development at Ászártej Kft. (functional feed)
- Development of a new innovative service at Oldcet Kft. (disinfecting service)
- Introducing a high-value genetic potential and developing the technological elements necessary for its exploitation, market entry
- Development of an entire feed production and processing technology system
- Innovative technology development of the production of white creamy cheese
- Modernisation of the Barcs plant of Dráva Tej Kft. to enable them to produce cheese specialities, and research and development activities aimed at large-scale production of Middle Eastern artisan cheese
- Innovative development at Ászártej Kft.
- Innovation at Sió-Eckes Kft.
- Marketing of a gluten-free ready-to-cook deep-frozen product range
- Development of the production line technology of solar cells at Jüllich Glas Holding Zrt.
- Supporting market-oriented R&D activities at Jüllich Glas Holding Zrt.

- Development of a special briquetting machine at Forráscentrum Kft.
- Development of a horizontal briquetting technology with the use of new material types at Majsza Herba Zrt.





Hungarian Medical Cluster

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Co-operation of Hungarian Medical Cluster (HMC) members dates back to the mid 1990s. More extensive co-operation started following EU accession, and then they formed a cluster. HMC was established on 14 December, 2006, with 21 members. It currently operates with 33 members.

The cluster is made up of companies and institutions which conduct profit or non-profit based development, manufacture and sale of Hungarian medical devices, or companies which carry out related activities or provide technical-scientific support.

One of the main objectives of Hungarian Medical Cluster is joint and organised response to market challenges and competition, improvement of competitiveness, intensification of co-operation in terms of development and marketing, and finally, utilisation of advantages in joint acquisition and export sales. Cluster members wish to intensify their economic role, primarily by innovation and by reinforcing co-operation, improved lobby activities, on both domestic and international markets.

32 out of 33 cluster members are enterprises, and all of them are SMEs. One of them is a state budget organisation, Budapest Enterprise Agency. Cluster activities are primarily focused on Central Hungary, it is where the cluster management centre is located. The five biggest cluster members in 2010 reached HUF 18.6 billion revenue (roughly EUR 65 million), number of individuals employed by 32 SMEs was more than 1200 during this period.

Founding members:

- ALFA Impulz Bt.
- ASS Magyarország Kft.
- AUTER Elektronika Kft.
- BioDigit Kft.
- Budapest Enterprise Agency
- Control X Medical Kft
- DenTech Dental Instrument Manufacturer and Trade Deposit Company
- DIA-MED Kft.
- Gastrotherm Kft.



- INNOMED Medical
- Korzet Kft.
- Lasram Engineering Kft.
- MEDICOR Elektronika Zrt.
- Medimon Engineering and Trading Kft.
- Mediplan Kft.
- Meditech Kft.
- MediTest Kft.
- Minel Elektronikai és Kereskedelmi Kft.

- SYSLONG Kft.
- Titán-Computer Kft.
- Tradeflex Kft.

Project Plans:

- Innovative service forum
- Establishment of a MedMarket forum
- Creation of a new medical device



Information Management Innovation Cluster

Information Management Innovation Cluster was established on 27 October, 2008, with 9 founding members. Cluster operation focuses on mobile area IT applications, specialised management applications, designer and analytic tools. Cluster member portfolio exclusively contains IT management products and related services.

A strategic cluster objective is to establish co-operation between enterprises of the IT sector, and to enter joint research and development with educational institutions. Their continuing success is confirmed by several internationally acclaimed R&D projects and products.

The cluster currently has 21 members, all of which are SMEs. Most powerful cluster members are DSS Consulting Kft., ESRI Magyarország Kft., M&M COMPUTER Számítás- és Irodátechnikai Kft., PROCESSORG SOFTWARE 82 Kft. and Sense/Net Zrt. 2010 revenue exceeded HUF 3 billion (roughly EUR 10 million), and members employed 232 individuals in total.

Cluster Manager:	Információmenedzsment Innovációs Klaszter Kft.
Manager:	Ferenc Brachmann, Mr
Address:	7623 Pécs, Mezőszél utca 6. HUNGARY
Phone:	36 21 252 5256
E-mail:	info@i2k.hu
Web:	www.i2k.hu



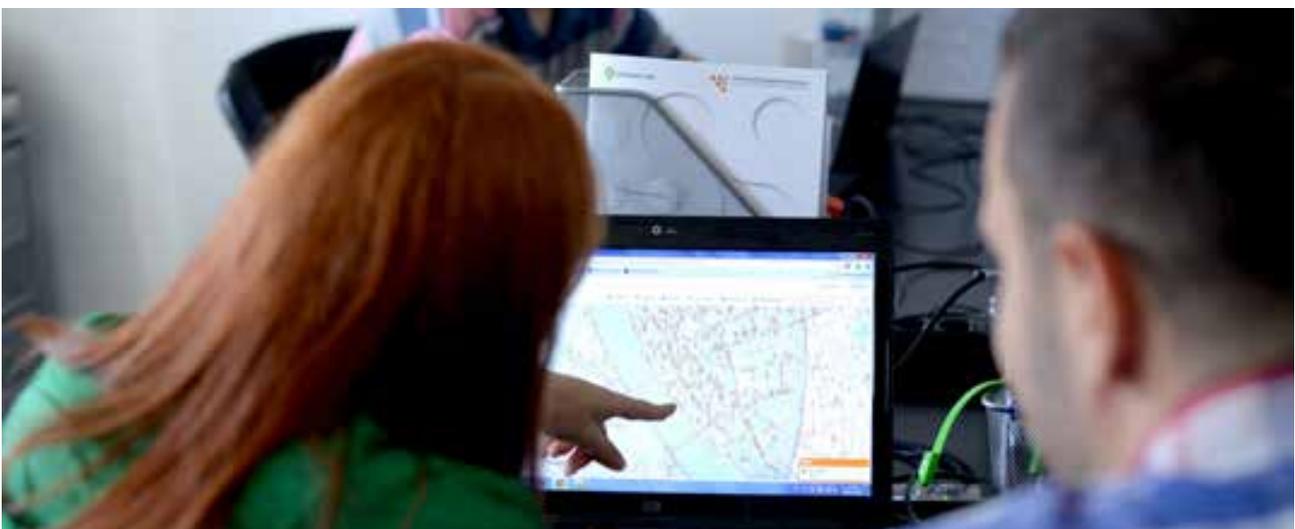


Founding members:

- ESRI Magyarország Kft.
- Dexter Kft.
- Processorg Software 82 Kft.
- Cydrel-Quality Kft. (now: SL Software Consult Hungary Kft.)
- MarkCon Informatikai Kft.
- M&M Computer Kft.
- Dél-Dunántúli Regionális Innovációs Ügy-nökség Nonprofit Kft.
- OpenMinds Kft.
- Altamira Kft.

Project Plans:

- Development and international market introduction of a new generation, multi-platform, location based service platform
- Development of location based services for the international market
- Development of a thin client architecture business management application with artificial intelligence support
- Development and international market introduction of a flexible, co-operation based information management tool
- Development of a multiplatform on-demand BI tool for the SME sector



INNOSKART ICT Cluster

The INNOSKART ICT Cluster (formerly named as Central-Transdanubian Regional IT Cluster) was founded in 2006. Its strategic development objective is the realisation of R&D&I consortium co-operations involving enterprises from other emerging industries. Our cluster is organised horizontally with regards to the profile of the co-operating companies, our members are primarily SMEs operating in ICT. One of the expected advantages of our network cooperation is knowledge creation and intermediation – there are 4 knowledge centres among our partners. Beyond these and the ICT companies there are enterprises also from other sectors among our cluster members, which help widen the innovation cooperation work based on IT developments.

Cluster management is provided by the Innoskart Nonprofit Ltd. Among its services the IMProve consultancy has got outstanding significance in the field of innovation management, which assists the cluster member companies in the continuous improvement of their innovation potentials.

Cluster operation is ensured by the 31 SMEs, College of Dunaújváros, Fejér County Government Office – Plant and Soil Protection Authority, Department of Geoinformatics – University of West Hungary and Alba Regia University Centre of Óbuda University - altogether 35 cluster members.

Cluster Manager:	Innoskart Business Development Nonprofit Ltd.
General Manager:	Zsuzsanna Pintér, Ms
Address:	8000 Székesfehérvár, Had utca 1-3. HUNGARY
Phone:	+36 22 514 100
E-mail:	pinter.zsuzsa@kdrik.hu
Web:	http://innoskart.eu

Cluster members are amongst others:

- Albasoft Training Kft.
- B&O Kft.
- Bakonysoft Kft.
- Delta Trade Kft.
- e-Base Kft.
- Elsner Kft.
- Hungarocont Kft.
- Ivanics Kft.
- Magyarmet Finomöntöde Bt.
- Mortoff Kft.
- Nivo-Vas Kft.
- RIS Kft.
- Seacon Europe Kft.
- Smartsol Kft.





Based on the operational working groups competences of the INNOSKART ICT cluster are the following:

- Security solutions (software development and service)
- Sensor networks (software and hardware development)
- Intelligent house (software and hardware development)
- Bank IT and health care IT working group

A major objective of the INNOSKART ICT Cluster is presence on international markets. With the leadership of the international working group the cluster participated in more than 30 international projects since 2009, more than half of which were FP7 R&D&I projects. With the leadership of this working group our objective is the active participation in the Horizon2020 programme. Further we aim at strengthening the export market presence of the cluster members through interclustering activities.





mobilitás és
multimédia
klaszter

Mobility and Multimedia Cluster

Cluster Manager:	Mobilitás és Multimédia Koordinációs Iroda Nonprofit Kft.
General Manager:	Barnabás Málnay, Mr
Address:	1075 Budapest, Madách Imre út 13-14. HUNGARY
Phone:	+36 30 866 1923
E-mail:	info@mmklaszter.com
Web:	www.mmklaszter.com



Mobility and Multimedia Cluster (MM Cluster) was founded by 10 members on 17 December, 2007. Founding companies list Magyar Telekom Nyrt and Ericsson Hungary. These companies have been assisting cluster operation ever since. Number of cluster members was increasing rapidly, today there are already 68 active members working for the joint successes, 20% of them are start-up enterprises. MM Cluster's main activities are focused to the Central Hungarian region and Budapest.

MM Cluster embraces the most successful Central Hungarian companies and research workshops that are active in the field of ICT. Key cluster objectives are to co-ordinate mobile technology development, multimedia and new media innovations in order to facilitate domestic and international utilisation of innovative achievements by embracing the innovation chain. Main identity features of the cluster are partly mobile technologies and partly multimedia or new media developments. These technologies are penetrating business and society, revolutionising several industries, such as transport, entertainment, commerce, banks, healthcare, vehicle control and navigation, to name but a few. Main cluster objective is to have internationally acclaimed and innovative developments in these segments and in related areas.

Cluster members are 55 SMEs, 4 large enterprises, 4 research institutes and 7 universities. In 2011 the aggregated revenue of cluster members employing in total more than 10,000 people exceeded HUF 650 billion (roughly EUR 2.3 billion).

Members of the MM Cluster took part in several joint R&D, innovation and business projects in the past years. The portfolio of joint projects since 2008 reaches HUF 10 billion (roughly EUR 36 million). In this portfolio there are close to 40 projects assisted by grants. All these are implemented by members of the MM Cluster jointly. The MM Cluster organises the Hungarian Innovation TechShow often quoted as the 'Hungarian CES' in the media. The TechShow is an innovation exhibition linked to a conference. The event provides an opportunity to both medium and large enterprises strong in innovation and to young, start-up enterprises developing their



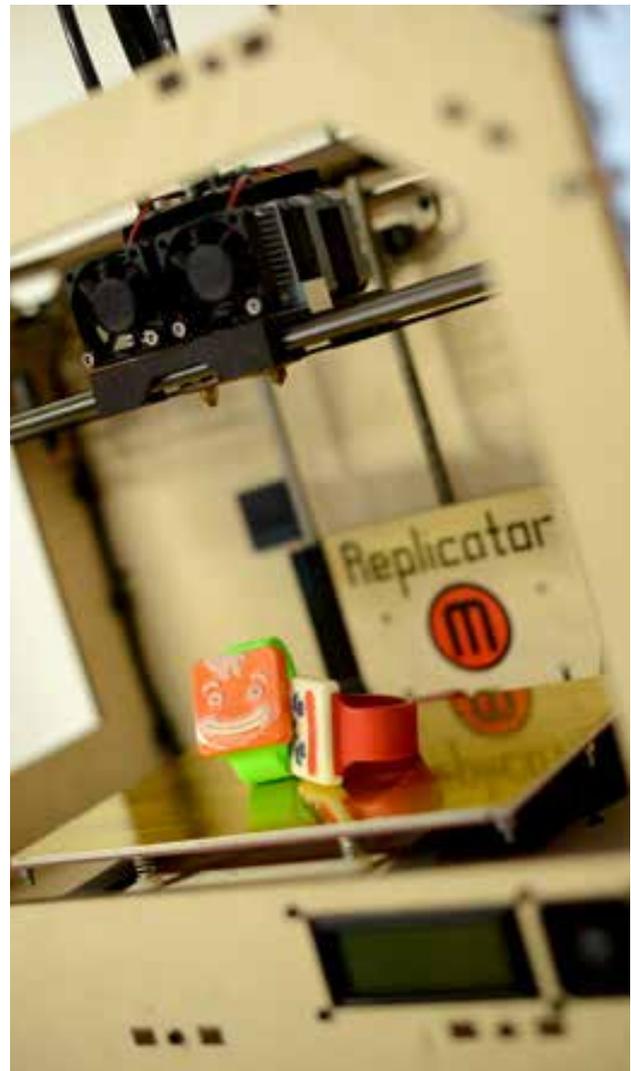
products that have not been marketed yet to present their fresh developments to professionals, the media and the public.

Founding members:

- Magyar Telekom Távközlési Nyrt.
- Budapest University of Technology and Economics
- Ericsson Magyarország Kommunikációs Rendszerek Kft.
- Hewlett-Packard Magyarország Kft.
- SUN Microsystems Kft. (its legal successor is Oracle Hungary Kft.)
- GTS-Datanet Távközlési Kft.
- Albacomp Számítástechnikai Zrt.
- Origo Média és Kommunikációs Szolgáltató Zrt.
- Innomed Medical Zrt
- AITIA International Zrt.

Project Plans:

- Establishment of an NFC eco-system
- Mobile device fleet
- Hybrid TV promotion system
- Product family to assist digital integration of senior citizens



North Hungarian IT Cluster

Cluster Manager:	North Hungarian IT Management Non-Profit Limited Liability Company
Managing Director:	Gábor Sáfrány, Mr
Address:	3530 Miskolc, Széchenyi u. 70. HUNGARY
Phone Number:	+36-20-771-7364
E-mail:	info@infoklaszter.hu
Web:	www.infoklaszter.hu



The North Hungarian IT Cluster aims at playing a bridging role between the scientific centres of the North Hungarian region and the players of the IT market, and also wishes to play an advocacy role, enabling a more effective representation of the IT companies of the region towards the central government. As the name of the cluster suggests most of its activities take place in the North Hungarian region.

The cluster was founded in June 2007 by five companies, to achieve – by building on the knowledge base of the region, and by uniting the research and development capacities of the member companies and exploring the existing synergies – R&D results that are suitable for creating marketable products and services, in the areas of business IT, convergent technology, internet IT and industrial IT. The member companies are active in the areas of IT service provision, professional, academic, technical activities, and – in connection with a project for establishing an infopark – in real estate transactions.

R&D&I activities are performed within the frames of the cluster in so-called sections that are organised by the most important professional areas within the IT sector. Through their operation information and knowledge sharing and project generation are implemented efficiently. At present four sections are active: Business/Financial/Bank IT Section; Convergent Technologies Section; Internet IT Section; Industrial IT Section. After 2010, the cluster was awarded again the title of Accredited Innovation Cluster in 2012.

The main activities of the cluster:

- Research activities in information and communication technology and in mobile technology sectors
- Domain and storage service, on-line marketing
- Bank IT
- Automation, industrial IT
- ERP, CRM systems
- Custom software development
- Testing
- Software and hardware trade



At present the cluster has 46 members, from these 43 are SMEs, 1 is a large company (Evosoft Hungary Számítástechnikai Kft), and 2 are non-profit organisations (Eszterházy Károly College, University of Miskolc). The total net sales of all the members of the cluster for 2010 was nearly HUF 45,7 billion (roughly EUR 164 million), from which the sales of SMEs was HUF 16 billion (roughly EUR 57 million).

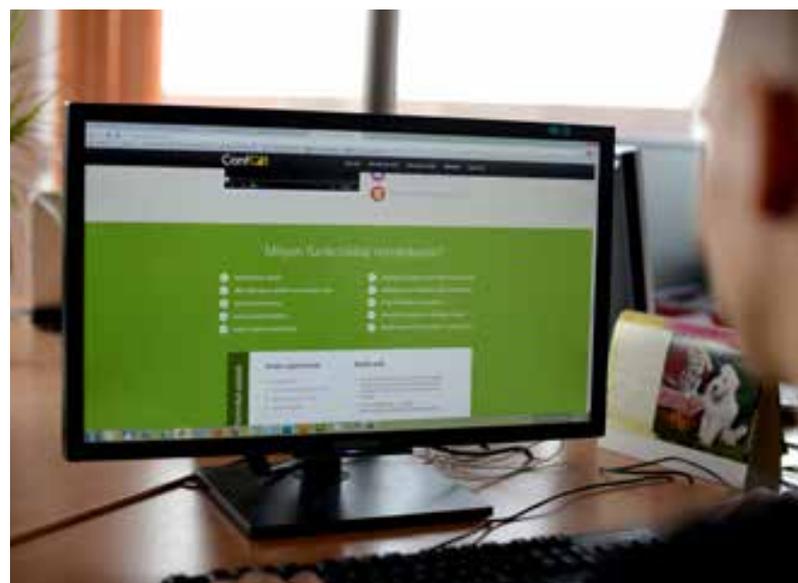
Cluster members are amongst others:

- Capture Zrt.
- IND Group
- evosoft Hungary Kft.
- SzinvaNet Kft.
- Mobile Engine Kft.
- Nextent Zrt.
- Fps Webügynökség
- Prolan Smart Energy Kft.
- Dolphio Consulting Kft.

Project Plans:

1. Researching the borderline of technology and business in the area of banking front office products
2. Development of 5th generation Internet banking solutions

3. Development of a modular video-processing framework and marketable products based on it
4. Creating an IT and medical-professional basis, as well as working prototypes of a distant healthcare service system
5. Development of a language-independent, real-time telephone call sorting programme
6. Development of the ready-to-manufacture prototype of a robot model and environment based on robotics solutions
7. Miskolc Infopark Project



Pannon Wood and Furniture Cluster

Having recognised the need for a comprehensive and innovative industrial co-operation, companies teaming up in Pannon Wood and Furniture Cluster (PANFA) aim at taking future steps based on the assistance of Faculty of Wood Sciences of University of West Hungary. A major goal of the co-operation is to enable the Hungarian wood industry to produce marketable products for both the national and the international market. These wood building and other products are made from high quality components and materials. It is also important that by looking much longer ahead than just 1 or 2 years, the industry can successfully keep up with long term international trends. Utilising the latest material science and nanotechnology achievements is becoming extremely important as such novel features can better mechanical, fire and water proofing, as well as aesthetic properties of wood-based products, while preserving major waste management and recycling characteristics of wood.

Majority of Pannon Wood and Furniture Cluster members operates in wood processing and furniture manufacture. Cluster members focus on scientific and technical activities. Such operations are based on R&D&I capacities of University of West Hungary. As a result of the co-operation among cluster members, research centres and enterprises, introduction of highly innovative solutions (technology, raw material, product development) is possible.

The cluster has 45 members, out of which 36 are SMEs, 1 large enterprise and there are a number of research institutions as well.

2011 revenue of all member companies was HUF 22.7 billion (cca EUR 78.3 million) while average statistical staff figures in 2011 amounted to 1358.

Cluster Manager:	EFFIX-Marketing Kft.
General Manager:	Péter Sándor Pakai Mr
Address:	9400 Sopron, Malompatak utca 13. HUNGARY
Phone Number:	+36-99-788-174
E-mail:	info@effix.hu
Web:	http://www.panfa.hu/

Cluster members are amongst others:

- University of West Hungary
- Forest Hungary Kft.
- Falco Sopron Bútor Kft.
- Lignomat Kereskedelmi és Szolgáltató Kft.
- Németh-Fa Kft.
- Kanizsa Trend Kft.
- PALMÖB Asztalosipari és Kereskedelmi Kft.
- FABAK Kereskedelmi és Szolgáltató Kft.





Project Plans:

- Energy efficiency and heat insulation improvement
- Reduction of company energy consumption, energy efficiency improvement
- Implementation of waste-free technologies in the wood industry
- Surveying building woodwork products market
- Woodwork products campaign
- Furniture for young people
- Kitchen furniture development for disabled individuals
- Furniture industry production development
- Complex furniture market trend analytic system
- Online furniture designer
- Implementation of comprehensive wood building patterns
- Development of furniture for people with special needs
- Material science research for cost-effective production and design of environmental friendly and marketable products
- Academic research into wood machining technologies
- Comprehensive IT support



PharmAgora Quality of Life Cluster

PharmAgora Quality of Life Cluster is active in the fields of health and pharmaceutical industry. It was established on 23 April, 2007 by 11 small and medium-sized enterprises to combine market and development activities of the founding companies, and to improve their market positions. Despite of the harsh economic situation, due to close co-operation of cluster members, the cluster has been able to grow, domestic and international positions have been stabilised, and the number of members reached 26. Geographically, the cluster is focused on the Central-Transdanubian region, with its headquarters being in Balatonfüred.

PharmAgora Quality of Life Cluster activities primarily cover scientific research-development areas in the healthcare industry. The cluster places special emphasis on development of diagnostics procedures, development and manufacture of quality and functional food (primarily of animal origin), development and manufacture of premixes and other innovative generic drugs and dietary supplements. Development of cardio-vascular/gastro-intestinal stress testing system, a gastro-intestinal diagnostics system and a variety of premixes are based on existing achievements. The cluster implemented significant development and investments in the region which ensured the establishment of instrument, drug and food industry development and related background services.

The cluster currently involves 10 micro, 7 small and 5 medium sized enterprises, 3 universities (University of West Hungary, Semmelweis University and University of Szeged), and Municipality of Balatonfüred. In 2011, medium-sized enterprises were the best performers, the 5 members with the highest revenue (Brunswick Magyarország Kft., Diagnosticum Zrt., Olivia Élelmiszerfeldolgozó Kft., Meditop Kft., Solum Zrt.) achieved 87% of cluster's revenue, with HUF 31.5 billion (roughly EUR 113 million). In 2011, number of people employed by the cluster was 845.

Cluster Manager:	AdWare Research Fejlesztő és Tanácsadó Kft.
Manager:	Zsuzsanna, Papp, Dr
Address:	8230 Balatonfüred, Völgy utca 41. HUNGARY
Phone:	+36 87 789 073
E-mail:	info@pharmagora.hu
Web:	www.adwareresearch.com





Founding members:

- ADEXGO Ipari, Kereskedelmi és Szolgáltató Kft.
- AdWare Research Fejlesztő és Tanácsadó Kft.
- CERA-MED Egészségügyi és Oktatói Kft.
- Experimetria Orvosbiológiai Kutató, Fejlesztő, Gyártó Kft.
- GenProt Hungary Kutató, Fejlesztő és Forgalmazó Kft.
- MSB-MET Kft.
- MEDITOP Gyógyszeripari Kft.

Project Plans:

1. Development of cardio/gastro-intestinal stress test system
2. Development of a gastro-intestinal diagnostics system
3. Development and full-scale marketing of milk enhanced with Omega-3, CLA fat acid and D vitamins, development of premix necessary for product manufacture, develop-

- ment and manufacture of dairy products
4. Combination of powdered egg based functional food and drug molecule (VITION) for cardiovascular diseases
5. Combination of powdered egg based functional food and drug molecule (DIATIVA), for supplementary treatment of Type 2 diabetes



Pharmapolis Debrecen Innovative Pharmaceutical Cluster

Cluster President:	Erik Bogsch, Mr
Cluster Manager:	Pharmapolis Klaszter Kft.
Manager:	Éva Skultéti, Dr
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Phone:	+36 52 500710
Fax:	+36 52 500 720
E-mail:	pharmapolis@hbkik.hu
Web:	www.pharmapolis-hungary.eu



Pharmapolis Debrecen Innovative Pharmaceutical Cluster was established on 25 August, 2008, and today it operates with 27 members. The cluster mainly focuses in the Northern Great Plain region, especially around Debrecen, however, through member co-operation, Szeged also plays an important role. 20 out of 27 members are SMEs, there are 3 large enterprises and 4 non-profit organisations (University of Debrecen, Institute of Nuclear Research, Hungarian Academy of Sciences, Biological Research Centre, Szeged, Hungarian Academy of Sciences Chamber of Commerce and Industry Hajdú-Bihar County).

The cluster involves profit and non-profit oriented members to enhance added values in drug industry, human biotechnology and related value chains. Cluster members may also carry out activities closely connected to these industrial fields. Main cluster research areas envelope development of drugs for central nervous system, inflammation and metabolism related diseases. Cluster objective is to establish an internationally known training centre which provides full-scale service for professionals dealing with nuclear medicine, medical-biological and functional imaging activities. Cluster activities are accompanied by the establishment of a new manufacturing plant and a new science industrial park in Debrecen, and there are plans to establish a new bio-innovation park in Szeged.

Most powerful cluster members are: Richter Gedeon Nyrt., MEDISO Medical Equipment Development and Service Kft., Municipality Health-care Holding Zrt., ScanoMed Medical Diagnostic Research and Training Kft. and HUNIKO Kft. 2010 revenue of these five enterprises amounted to HUF 286 billion (roughly EUR 1,004 million), and number of people employed by all member companies reaches nearly 11,000.

Founding members:

- Abiol Kft.
- Biomer Kft.
- Biosystems International Kft.
- Brain-X Kft.
- CERA-MED Egészségügyi és Oktatói Kft.



- University of Debrecen
- Debreceni Vagyonkezelő Zrt.
- Hajdú-Bihar County Chamber of Commerce and Industry
- HUNIKO Kft.
- Labexpert Kft.
- MEDISO Kft.
- Institute of Nuclear Research, Hungarian Academy of Sciences
- OMNINVEST Kft.
- ONIX Nyomda Kft. (today: PharmaPrint Kft.)
- Önkormányzati Egészségügyi Holding Zrt.
- PET-CT OD Kft. (today: ScanoMed Kft.)
- PHARMAPOLIS Debrecen Kutató és Fejlesztő Kft.
- PRS Kft.
- Richter Gedeon Nyrt.
- UD Genomed Medical Genomic Technologies Kft.
- JSW Hungary Kft.
- Laser Consult Kft.
- LipidArt Kutatási, Fejlesztési és Tanácsadó Kft.
- Biological Research Centre, Szeged, Hungarian Academy of Sciences
- Vitadel Kft.

New Entries:

- CERORIN Kft.
- Pharmatom Hungária Kft.

Focus Areas:

- Innovative therapy products
- Imaging technologies
- In vitro technology platforms
- Education module
- Biotechnology



Sárrét Metal Cluster

Sárrét Metal Cluster primarily aims at joining forces of conventional metal processing companies of Békés County, however, its activities reach well beyond the county's geographical area. The objective of the cluster is to ensure competitive advantage for member companies. The cluster was established in 2008. Its goals encompass cluster management activities, facilitation of member co-operation, joint development, project implementation and establishment of a supplier network. Companies are in regular business relations with each other, client and contractor positions are mutually changing among them.

The cluster actively participates in metal industry activities. This sector is considered to be a leading sector in the EU, in addition, a large number of micro, small and medium sized enterprises operate in this field.

Sárrét Metal Cluster members are primarily second and third level suppliers of automotive manufacturers. Except for the assembly of final products, their activities cover nearly the entire

Cluster management organisation:	CSABA METÁL Öntödei Zrt.
Cluster Manager:	Mr László Fenyvesi
Address:	5600 Békéscsaba, Kerek 637.
Phone Number:	+36 20/490-0053
E-mail:	agroapro@gmail.com
Web:	http://metalklaszter.hu/





metal processing chain. Their activities include light metal casting, machining of aluminium and steel casts, plate machining, metal machining, welding, metal structure manufacture and assembly, galvanisation, surface treatment and painting.

Sales are chiefly based on toll manufacturing, however, companies do have their own products. Key clients come from the most developed Hungarian regions, automotive manufacturing centres, as well as Germany, France, The Netherlands and Switzerland.

There are two major segments in processing industry; one of them is production of metal processing products, the other is road vehicle manufacture. Main products are metal constructions and buses.

The cluster has 26 members, - primarily from the southern region - out of which there are two private entrepreneurs, a university and 23 micro, small and medium sized enterprises . 2011 revenue of all member companies was

HUF 19,4 billion (cca EUR 66.9 million) while average statistical staff figures in 2011 amounted to 1257.

Cluster members are amongst others:

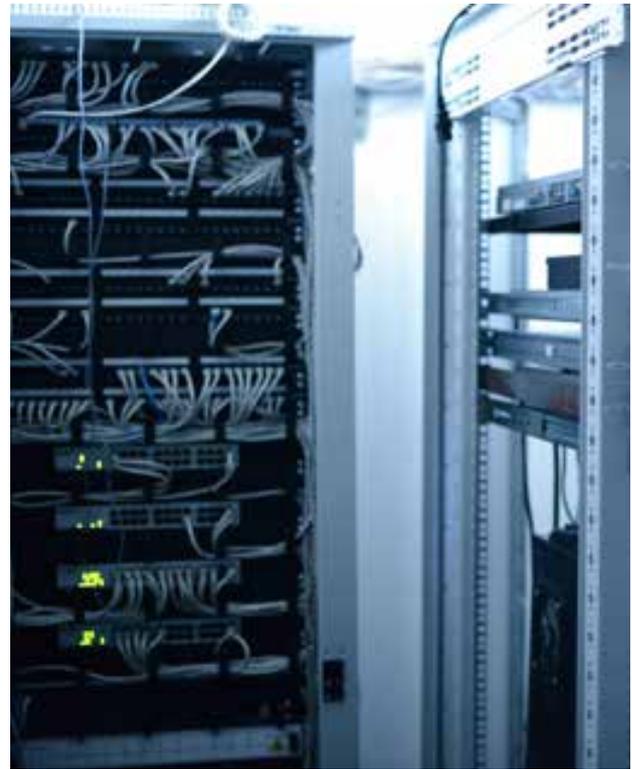
- Csaba Metál Zrt.
- EJT Kft.
- Csaba-Berényi Gépgyártó Kft.
- VGM MAGÉP Kft
- Losonczy Kft
- Kerámiagép Kft

Project Plans:

1. Welding technology improvement to develop the supplier market
2. Automotive supplier and export activity development in metal machining
3. Light metal casting related complex technology development to improve supplier industry
4. Extension of engine part manufacturing activities to acquire new markets



System Science Innovation Cluster



At the initiative of PANNON-PÓLUS Kht., the Pannon R&D&I&E Cluster was established on 15 December, 2006. Number of members has increased to 31 in the past years. Cluster members are connected by the fact they are active in sectors where the basis of their operation and development activities is triggered by operating in different IT systems. From 2012, the cluster continues to operate under the name of System Science Innovation Cluster.

Cluster Manager:	PANNON - PÓLUS Innováció - Menedzsment és Inkubátor Szolgáltató Non-profit Kft.
Manager:	Gábor Ujhelyi, Mr
Address:	8230 Balatonfüred, Fürdő utca 17/B HUNGARY
Phone:	+36 87 799 300
E-mail:	info@pannonpolus.hu
Web:	www.pannonpolus.hu

Cluster headquarters are located in Balatonfüred. The cluster promotes regional economic development, broadens regional economic diversification, and supports the improvement of local employment conditions. Project implementation takes place in an Innovation centre established by the cluster. The centre is a research institution for ICT companies settled in the region, and provides professional staff education and training at the highest possible level, as well as ensures direct transfer of new research findings to enterprises. Thus the project implements the combination of three important pillars of knowledge based enterprise development: TRAINING – RESEARCH - PROJECT IMPLEMENTATION.





Cluster members are 23 SMEs, 4 large enterprises and Research Centre for Natural Sciences, Hungarian Academy of Sciences, Budapest University of Technology and Economics, Óbuda University and Pannon University. Joint revenue of member companies in 2012 amounted to HUF 40 billion (roughly EUR 143 million). Member companies directly employ 2057 individuals. Their implemented projects created nearly 100 new jobs. On 6 April, 2012 the cluster qualified as an Accredited Innovative Cluster for the third time.

Activities of the Cluster primarily focus on health IT, intelligent public utilities, IT solutions and optimisation of logistics services. Number of projects currently exceeds 30.

Founding members:

- PANNON-PÓLUS Innováció-Menedzsment és Inkubátor Szolgáltató Kht.
- CONTROLSOFT AUTOMATIKA Kft.
- ONLINE Üzleti Informatika Zrt.
- Sense/Net Kereskedelmi és Szolgáltató Kft.
- LSH Informatika Kft.

Focus Projects:

1. 'HISCOM' – Hospital Information Systems COMMunication – IT communication platform for sharing and use of healthcare data
2. Satellite tracking, transport planning and optimising system
3. Scientific Research Centre





Silicon Field Regional IT Cluster

Silicon Field Regional IT Cluster (SzMRIK) was established by 21 enterprises on 1 July, 2008. Its main activities cover the Northern Great Plain region and Debrecen. In order to further enhance their influence, members unite their market forces, skills, innovative products, and they aim at developing their services together. Number of cluster members has reached 43.

The cluster is basically a network of IT communication companies and institutions which already have innovative achievements. Members have realised that co-ordinated development will lead to more competitive technologies, products and services. By ensuring seamless co-operation between members, cluster management guarantees the improvement of high added value innovative and export oriented activities, related training and establishment of knowledge intensive infrastructure.

The cluster includes 18 micro, 17 small, 3 medium and 3 large enterprises, as well as 2 higher education institutions (University of Debrecen and College of Szolnok). Highest revenues were achieved by Delta Informatika Zrt., POLYGON Informatikai Kft., Alcatel-Lucent Magyarország Kft., ISH Kft. and Bull Hungary, their joint revenue exceeded HUF 21.5 billion (roughly EUR 75 million) in 2010. In 2010, number of individuals employed by cluster companies was 799.

Founding members:

- University of Debrecen
- DIP Kft.
- College of Szolnok
- Debreceni Informatikai Kutató-fejlesztő Központ Kft.
- Magyar Telekom Nyrt.
- Geoview System Kft.
- BULL Hungary Kft.
- CORVEX Zrt.
- ISH Kft.
- Orgware Kft.
- Netlock Kft.
- NI Hungary Kft.
- Animex Kft.
- Feature Films For Families Hungary Kft.
- Invictus-Games Kft.
- Albacomp Számítástechnikai Zrt.
- Beks Kft.

Cluster Manager:	Szilícium Mező Kft.
Manager:	Arnold Pintér, Mr
CEO:	István Tóth, Mr
Address:	4028 Debrecen, Kassai út 26 HUNGARY
Phone:	+36 52 512 700 / 74732
E-mail:	info@szilicummezo.hu
Web:	www.szilicummezo.hu





- Lansoft Informatikai Kft.
- PAG-Stúdió Bt.
- ESANTU Kft.
- Optonet Bt.

Project Plans:

1. 3D display
2. Utilisation of 3D software and models
3. Security audit and methods
4. Regional and city area management informatics systems
5. Integrated customer service – ASP centre – local joint public administration service centre
6. Mission control
7. Multi-functional smart community card systems
8. e-election system
9. Intelligent resource map
10. Intelligent traffic management
11. Touristic systems
12. Regional Integrated Portal
13. Multi Utility Smart Metering Trial Debrecen project
14. Social communication tools, call and contact centres
15. E-democracy, IT society relation applications
16. University portal

17. e-learning, linguistic appliances
18. WEBAGORA
19. HUMARKET
20. Integrated library development
21. Data collection, anonymous systems, biobank supporting solutions, regional database and data mining
22. E-medicine, health protection and prevention, innovative e-medicine solutions (e-prescription)
23. Healthcare IT communication
24. Healthcare reform related development
25. Extension of R&D projects



Software Innovation Pole Cluster

The cluster was established with 19 members as a result of co-operation between leading software research centres, enterprises and technology transfer organisations on 21 September, 2007. Its activities are based on co-operation with partners such as the University of Szeged and E-Szeged consortium. As a result of dynamic development, there were 47 cluster members as of December 2012, 42 of which were SMEs.

The cluster provides high added value software development services primarily in the Southern Great Plain region and in the vicinity of Szeged, and it also helps to promote the implementation of local economy development goals. Main cluster objective is to ensure joint advocacy for companies involved, to further improve internal co-operation, to boost software innovation activities and to harmonise university research with software companies' demand. The cluster aims at increasing revenues for software industry SMEs, and intensifying their export shares. By effective and conscious utilisation of resources and competences of software developing SMEs and university education development, the cluster helps the IT industry to be an important actor of the local economy in the South Great Plain Region and Szeged.

Cluster Manager:	DEAK Kooperációs Kutatási Zártkörűen Működő Nonprofit Részvénytársaság
Cluster Manager:	Krisztina Nagymihály, Ms
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Fax:	+36 62 555 574
E-mail:	info@infopolus.hu
Web:	www.infopolus.hu





Main products and services in the focal areas:

1. Software quality
 - Quality assurance of software development processes
 - Quality monitoring of software products
2. Embedded and mobile system applications
 - Intelligent mobile data collection and processing systems
 - Ad-hoc (P2P) networks closely linked to mobile systems
3. Home care and medical imaging, signal processing
 - Homecare
 - Medical imaging and signal processing
4. Industry specific management solutions
 - Process based management systems
 - Industry-specific management solutions

Cluster member companies directly employed 10,463 people in 2011, and they were successful in the past years. In 2011, total revenue of cluster member SMEs was HUF 22.2 billion (roughly EUR 79.7 million), total revenue of all cluster member companies was HUF 1,203 billion (roughly EUR 4.3 billion). Total export revenue of all cluster member companies reached HUF 1,163 billion (EUR 4.2 billion).

The cluster has got the Accredited Innovation Cluster status since December 2008. The latest accreditation entitles us to use the Accred-

ited Innovation Cluster status from 11.01.2013 to 11.01.2015. As a result of their eligibility, projects of cluster members and project companies founded by them were awarded grants in schemes EDOP-1.2.1 and EDOP-1.3.1/B in excess of HUF 3 billion (roughly EUR 10.8 million).

Founding members:

- 3C Szeged Kft.
- Albacomp Zrt.
- Chamber of Commerce and Industry Bács-Kiskun County
- Clarity Information and Management Consulting Services
- Chamber of Commerce and Industry Csongrád County
- Epigramma Szolgáltató Kft.
- FrontEndART Szoftver Kft.
- GE Hungary Zrt.
- GriffSoft Informatikai Zrt.
- Montana Információtechnológiai és Kommunikációs Zrt.
- MorphoLogic Kft.
- MultiRáció Kft.
- OnlineWeb Kft.
- Polygon informatikai Kft.
- RITEK Zrt.
- Scriptum Informatikai Zrt.
- Siemens PSE Kft.
- Szeged Software Zrt.
- University of Szeged





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