



FTTH Council Europe

Annual Report April 2010 – April 2011



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Photo: courtesy of Nicolo Baravalle



Chris Holden

Hartwig Tauber

A word from **Chris Holden** and **Hartwig Tauber**

President, FTTH Council Europe

Director General, FTTH Council Europe

This Annual Report presents the results of a very successful working year 2010/11. The FTTH Council Europe has made a huge step forward on many topics:

- Membership exceeded 150 members.
- The FTTH Conference in Milan was a ground-breaking success with more than 3,000 participants.
- The FTTH Council Europe Middle East Group was developed into an independent FTTH Council Middle East & North Africa.
- The FTTH Council Europe positioned itself as an important player towards the European Commission, the regulators and the European organisations of telecom operators.
- The Digital Agenda Document and the recommendation on NGA regulation include several important positions which were developed and supported by the FTTH Council Europe in the last years.

- External Communications to media, press and stakeholders was further extended and the FTTH Council Europe has become a recognised and valuable source of information on FTTH topics.
- We have continued to enhance the benefits for members with additional opportunities including extending the Milan conference to enable members to organise pre-conference workshops, presentations at member events and many other benefits.

These impressive achievements were

only possible through a strong support from our membership, the efficient work of the volunteers in our working committees, the outstanding commitment of the Committee Chairs and Board Members and the dedication and hard work of our contracted team.

We would like to take the chance to thank you personally for your support for what we believe is the only, future-proof broadband solution that truly has the power to change lives.



FINDINGS

Europe on the move at last?

Data published by the FTTH Council Europe indicates that growth in fibre access deployment is at last picking up speed across the continent, although large discrepancies remain between countries.

At the start of 2010, FTTH stakeholders were expressing their concern about the slow deployment of FTTH in Europe, particularly with regards to its large economies. Although this is no time for complacency, there are signs that calls to speed up European deployment are being heeded, with many new projects reaching fruition in the second half of 2010, a trend that looks set to continue through 2011.

The Council's latest **FTTH European Ranking** covering the full-year 2010, showed that there are now 3.9 million fibre access subscribers across the continent, 8.1 million if Russia is included.

Lithuania retained the top European spot, followed by early pace setters Sweden, Norway, Slovenia and Slovakia. Turkey entered the Ranking for the first time, with Portugal and Latvia also showing strong growth. Russia demonstrated its huge potential with the highest growth in absolute numbers.

"The Baltic Countries as well as Russia continue to focus on fibre networks,"

said Chris Holden, President of the FTTH Council Europe. "Portugal is a showcase of a South European country moving forward very quickly on fibre roll outs, even leaving The Netherlands, Finland and France behind them. However, these positive examples can't fully compensate for the fact that countries like Germany, UK or Spain have yet to show real progress. Europe has still a long way to go."

The FTTH European Ranking is part of the Council's ongoing Market Panorama study, carried out by analysts at research firm IDATE, and showing the percentage of households that receive broadband services over optical fibre connected directly to their home or building.

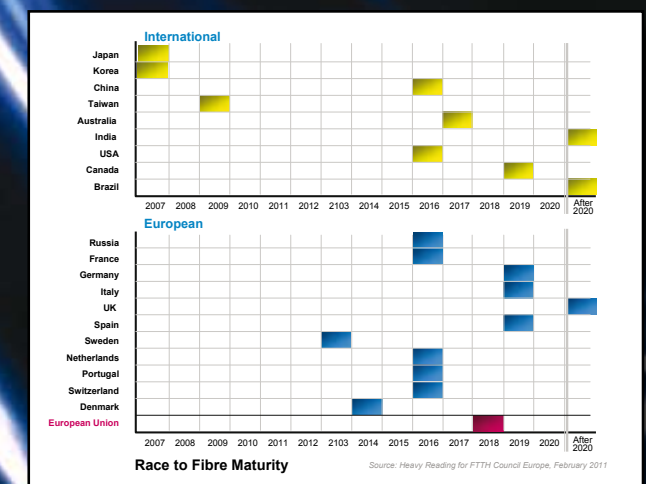
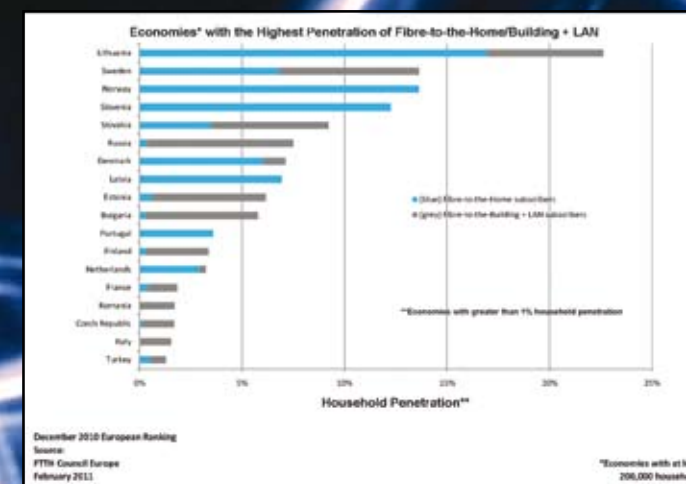


Photo: courtesy of Nicolo Baravalle

The latest **FTTH Global Ranking**, which incorporates data from the FTTH Councils of Asia Pacific and North America, contained further surprises.

The United Arab Emirates is a new entrant to the Global Ranking, which now numbers 26 economies that meet the qualifying requirement of at least 1% of households connected by FTTH or FTTB. The UAE dramatically jump started into the Ranking in fourth overall place, ahead of all European and North American economies and only behind South Korea, Japan and Hong Kong, which retain their status as world leaders.

Figures from consulting firm Heavy Reading, commissioned by the FTTH Council, forecast which economies are set to lead the market in the future.

The **FTTH Forecast** research looked in detail at 21 countries, briefly reviewing 17 further ones, between them covering

over 290 million households, 195 million of which are in the EU. Heavy Reading predicted that the strong drive to FTTB in Eastern Europe will continue, and that commitment to FTTH among municipalities in France, Netherlands, Germany and Switzerland will also grow.

Heavy Reading's **Race to Fibre Maturity slide**, reproduced above, shows that of the European countries considered in the research, only the UK looks set to fall short of 'fibre maturity' by 2020, defined as 20% of households penetrated by FTTH or FTTB.

As the market matures the message for the coming year is less about "Why fibre?" and more about "How fibre?," said Chris Holden, President of the FTTH Council Europe.

Jan Schindler, Chair of the FTTH Council Europe's **Market Intelligence Committee**, the body responsible for

the FTTH Rankings and Forecast, says the prospects for fibre access appear generally encouraging.

He said the Committee has spent the last year not only generating findings, but using those findings to encourage further deployment of FTTH: "We've conducted a number of webinars to help expose the results to as many interested people as possible," he says. "This has proven a great idea. We're continuing with major research projects, working with independent bodies like IDATE and Heavy Reading. We're also building up a database of successful deployments, to show people what can be done."

But despite encouraging signs, there remains much work to be done before Europe can hold its head up alongside leading Asian economies, says Neelie Kroes, the European Commission Vice-President responsible for Europe's ambitious Digital Agenda.

"We must now implement the Digital Agenda, and build a better future for Europe together," she said, speaking at the FTTH Conference in Milan. "At the heart of the Digital Agenda is ensuring that Europeans can get all the advantages and benefits that come from access to superfast broadband. Succeeding in this ambition is key to our economic future, and the role of fibre is central here."



What will fill the pipes?

Although no “killer application” has yet emerged, it is clear that a combination of advanced services and applications are increasingly filling the available bandwidth into homes and businesses.

Fibre is the only technology that removes all bandwidth bottlenecks, and the only one that genuinely supports new types of services and applications, like teleworking, video communication, eHealth and 3D entertainment. Innovative companies have already developed applications that work much better over fibre, as evidenced by the following examples.

eHealth, remote care for the elderly and dependant people

In the context of Europe’s aging population, applications dedicated to home care or support to the elderly are key to ensuring top level service whilst controlling financial and en-

vironmental costs. Several live demos of such services were presented at the FTTH Conference in Milan, including Link Care Services, a French company that provides remote video monitoring for patients with Alzheimer’s and other cognitive diseases, as well as for the elderly and dependant people living at home or in a care facility.

“Our role is to help those who care for others,” says Chief Technology Offi-

cer Thomas Chiroux. “They often find it hard to go out because they spend so much time with the person they are caring for. We support the carer by putting cameras in the home, sending a video stream to be analysed by an agent, checking there hasn’t been a fall or looking out for other risks.”

Chiroux says that over 600 implementations of the technology exist in France, most of which are at present connected by DSL, which puts a huge restriction on the system implementation. “The bandwidth limitations of DSL mean that we can only install two cameras per home,” he says. “With FTTH, you can monitor all the rooms in the patient’s home.” High quality video feeds are also

on his wish list – when an alarm is raised, the agent on duty needs a good image in order to check whether the patient really has a problem.

The potential of remote healthcare was also shown by Portugal Telecom, which has developed the MediGraf Teleconsultation Solution, a system that allows healthcare professionals to cooperate with each other on a diagnosis, using video conferencing, data sharing and other collaborative online tools.

“We enable real-time remote consultations so that doctors can make the right decisions about patient care,” says Filipa Calado, PT Inovação Sales and Marketing Director. “It is important that the doctors have full confidence in the live images they are seeing, otherwise it could lead to mis-diagnosis with potential disastrous impact on the patients, and also on their career. Hence this application requires high bandwidth, and FTTH is a key contributor to a successful remote consultation.”

Interactive e-Learning courses

Erdenet is another pioneering French company that has developed www.belearner.com, an interactive learning

aid that offers a platform for teachers to create a rich media path and share it with pupils in the classroom or the home. Each path created is unique and made up of multiple streams of information from text to audio and video. Pupils can pursue the programme at their own pace, interacting as they go. The application is also designed to be collaborative, promoting online community participation and exchange of information.

“Belearner offers pupils the chance to experience multiple points of view on a subject,” says Damien Roucou, Executive Director of Erdenet. “With an ordinary DSL connection, it’s very difficult to add rich media – video, sounds, maps. This is a tool that calls out for a fibre connection, directly linking this rich media to the pupil.”

Next-generation TV

Examples include the Microsoft Media-room TV delivery platform and FairPlay Interactive TV, with new ways to personalise TV content.

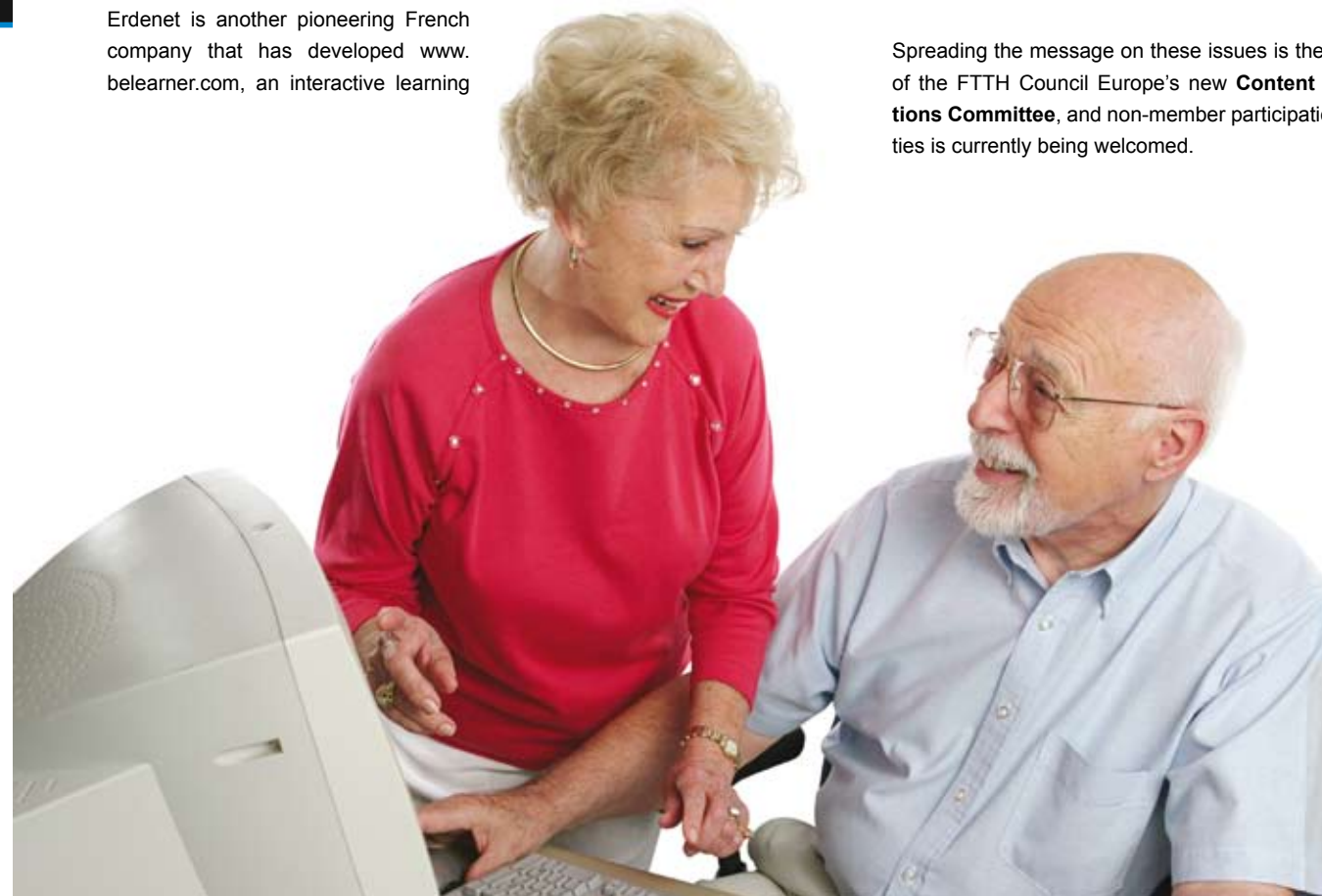
“On FairPlay Interactive TV, you can vote for music clips and an engine learns what your taste is,” explains Alexander Hayward, Marketing Director for FairPlay. “Content can be personalised easily. It’s fully interactive, all controlled by a standard remote control, and comes through a set top box, not a PC. There’s therefore no need for a complicated interface, or for any browsing. You just lean back on your couch and enjoy it as you would with ordinary TV.”

Hayward explains that the service requires one stream per viewer, which is only possible on high bandwidth networks: “With FTTH, we can be absolutely certain that customers will get what they want,” he says. “With DSL, there is no certainty. The more fibre there is, the better for us.”

Fibre-enabled interactive TV, he says, is also great for the Internet service providers, as it helps to justify the cost of service bundles: “For the network operator, it showcases the benefit of fibre, and it enhances the stickiness of particular channels.”

“There are a lot of services you can launch over FTTH,” said Tore Kristoffersen, Chief Technology Officer of Norwegian ISP Altibox, which has launched a number of next-generation services over its FTTH network, including interactive TV, alarm and energy monitors, and mobile phone off-load. Some next-generation services will be always-on; others will be accessed simultaneously by different members of the same household. The answer to the question: “what services will fill the fat pipe?” is “all of them”.

Spreading the message on these issues is the responsibility of the FTTH Council Europe’s new **Content and Applications Committee**, and non-member participation in its activities is currently being welcomed.





Financing FTTH networks: how to get it right?

The business argument for FTTH projects, and the raising of finance to support them, was much on the minds of FTTH stakeholders this year.

The investors' point of view

Investing successfully in fibre access, in a competitive market already well served with other broadband options, is a real challenge, according to Joost Goderie, Fund Director with Rabo Bouwfonds, and head of its Communication Infrastructure Fund (CIF), speaking at the FTTH Conference in Milan.

CIF has attracted investment from several pension funds, enabling it to put €750m into hybrid fibre coax (HFC) infrastruc-

ture in the Netherlands. The investors were attracted to fibre as a long-term play with stable cash flows, well aligned with their own need for long-term growth over short-term profit.

Rolling out additional infrastructure in a market already well served by cable makes sense, explained Goderie, where the strategy is to provide an up-

grade path for that existing infrastructure, not simply replace it.

Long-term thinking and low risk investment is also behind another high profile Dutch fibre success story, much discussed at the Milan event. Pioneering network operator Reggefiber has received investment of €285m from the European Investment Bank and five commercial banks for its FTTH deployment, set to achieve returns over a 10 year period.

Among the key tests that the project had to pass were technical soundness,

financial viability, an acceptable economic return and compliance with environmental protection and procurement regulation. FTTH was proven to tick all these boxes.

"This 10-year loan is crucial for Reggefiber to reach its ambitions," said Jan van Rooijen, Reggefiber's Financial Director, speaking in Milan. "It enhances the scale of FTTH we can provide in the Netherlands. Providing consumers and businesses with some of the fastest broadband speeds in the world sets the pace for European economic growth based on digital innovation. Our open

From left to right: Wolfgang Fischer, Member; Karin Ahl, Chair of the Business Committee; Natascha Weinstabl, Project Coordinator; Edgar Aker, Member; Jouni Heinonen, Member
Photo: courtesy of Titus Brein

model will encourage greater competition in the Dutch broadband market. It is also an excellent example of how the European Investment Bank and the European Commission can work effectively together to stimulate private sector investment in areas of strategic importance for Europe's future."

FTTH Business Guide V2

When the FTTH Business Guide was first launched at the beginning of 2010, it offered for the first time clear guidance on how to develop a sound business case for fibre access deployment.

The idea is to give operators, whether from a traditional telco background or not, guidance on how to put their roll-out plans into action more speedily and with a lower risk of costly error, based on success stories, case studies and experience of other operators across Europe.

The Business Committee has now made available an update of the Business Guide, available as a free download on the Council's website: "In the latest version, we have added a lot of

new content, and improved the graphics and layout," says Karin Ahl, Chair of the Business Committee. "We have put the focus even more on the financing of new deployments, and also on regulatory issues. This is particularly important with the EU's new Digital Agenda"

With more players getting active on the FTTH field, interest is growing in the practical financing issues, covered in the seminars, presentations and workshops that the Business Committee has been running, but also in the FTTH Wiki, where people are invited to give feedback.

External parties and non-members are welcome to take part in the activities of the Business Committee, including work on enriching the Business Guide.

What makes a successful FTTH project?

To help answer this question, the FTTH Council Europe has begun to assemble a series of FTTH case studies, available for download on our website. The stories selected include projects from different countries, different business models, and from different stakeholders in the FTTH ecosystem. The aim is to illustrate the wide variety of different approaches to FTTH deployment as well as any common themes.

Success is not only defined by financial figures - the period of return on investment is very different in the projects and also depends on the approach of the operators. Other examples of success might include evidence of socio-economic benefits for the community, or new applications developed for and enabled by the high-speed network.





On the road to innovation

It is now widely recognised that FTTH is the only future-proof access solution. Even though the argument for FTTH is cast iron, the quest for innovation on how it is deployed goes on unabated.

The FTTH Council Europe's Deployment & Operations Committee has the task of keeping up with the latest technologies and encouraging technical innovation. "We continue to focus on the technical aspects of deploying and operating a fibre access network," says Natascha Weinstabl, Project Coordinator of the FTTH Council Europe.

The D&O Committee is responsible for producing the FTTH Handbook, now in its fourth edition: "It now deals with both active and passive networks, with new input on new technologies and new ways of doing things," says Wein-

stabl. "In it we consider all the new techniques that have been developed for all sorts of networks. We have also worked to synchronise the Handbook more closely with the Business Guide, and achieve a coordinated approach between the two publications."

Over the next year, the D&O Committee will be translating the Handbook into other languages than just English, she

says, as there's demand now for an edition in a number of local languages.

She says the Committee has also conducted webinars on various technical topics: "We would like to request further input on what people think are interesting subjects," she says. "We'd also like volunteer speakers for events."

"What made our webinars so successful is that they were well attended by people from outside the Council, interested in specific topics like network planning," says Hartwig Tauber, the FTTH Council Europe's Director General. "We hosted workshops too, helping to spread information on new technologies and solutions."

FTTH Innovation Awards 2011

The FTTH Conference 2011 in Milan concluded, as is now traditional, with the presentation of the FTTH Innovation Awards.

Selected not by the Council but by an independent panel of experts from the academic world, the Innovation Awards recognise companies and organisations whose creativity has in some way driven forward the FTTH industry. This year the Awards were made in two categories:

- deployment & operations
- technical & technology

The award for deployment and operations went to Portugal Telecom for its I5 strategy, an integral part of its impressive FTTH implementation plan that has seen over one million homes connected over the last year.

I5 stands for the five pillars of innovation needed for a successful FTTH transformation, namely: network de-

ployment and operations, service delivery, service convergence, business transformation and an eco-system of partnerships.

Portugal Telecom's holistic approach has demonstrably paid off, enabling it to capture approximately 30% of the country's pay TV market since services launched in April 2008.

"Portugal Telecom has always positioned itself at the forefront of the development and rollout of leading-edge technologies," said Portugal Telecom CEO Zeinal Bava, receiving the award: "For us, the investment in fibre was not a question of 'if', but of 'when', as we believe it is the only future-proof technology to provide ultra-broadband services to our enterprise and residential customers."

Bava said the company's aggressive FTTH roll-out is a core part of its cloud offer and pay TV strategy, underpinning the whole transformation of its business model.

"This award recognises teamwork of the highest calibre, and the success of a strategy focused on innovation, operational execution and partnership with industry leaders to deliver best-in-class services to our customers," added Bava.

The winner in the technical category was Nokia Siemens Networks for its ultra-dense WDM-PON system utilizing coherent detection technology.

This experimental system has been designed to deliver sustained symmetric data rates at 1.2 Gbps per subscriber, long reach up to 100 km, and high channel count of up to 1000 channels per fibre. Such a system is capable of supporting residential, enterprise, as well as mobile backhaul customers within the same optical distribution network.



*From left to right:
Chris Holden with Sylvia
Smolorz & Joao Picoito from
Nokia Siemens Networks*

For the first time ever, ETNO, ECTA, BEREC and FTTH Council Europe spoke in a sequence at the same event at the FTTH Conference 2011 in Milan. From left to right: Luigi Gambardella, Executive Board Chairman of ETNO; Hartwig Tauber, Director General of the FTTH Council Europe; Neelie Kroes, Vice President of the European Commission and European Digital Agenda Commissioner; Tom Ruhan, Chairman of ECTA; Dr. Leonidas Kanellos, Vice Chair of BEREC; Chris Holden, President of the FTTH Council Europe



A wind of change

The last year has seen important regulatory developments that support the case for FTTH.

In May 2010, the European Commission set out its long awaited Digital Agenda, with the aim of speeding up the deployment of high speed broadband across the continent and spurring the region's economic recovery in the process.

The EC wants a borderless online environment where attractive online services are available to all, over a fast broadband connection. Specifically, the target is that by 2020 internet speeds of 30Mbit/s or above are available to all European citizens, with half of households enjoying connections of 100Mbit/s or higher.

"The FTTH Council Europe has been pushing since 2004 for a definition of broadband that clarifies the need for high

connection speeds," says Hartwig Tauber, Director General of the FTTH Council Europe. "It is now clear that 2Mbps download speeds are not enough. The Digital Agenda is a big step forward, and a success for us, as only fibre can achieve all that is demanded by the Digital Agenda."

Speaking at the FTTH Conference in Milan, Neelie Kroes, Vice President of the European Commission and European Digital Agenda Commissioner, talked of the role of fibre access as 'central'

to making the Agenda happen. "It is not possible to maximise access while failing on fibre," she said. "The current rate of new [European] connections – now down to 25,000 a day – is simply not enough to meet our 2020 targets. We have to intensify our efforts and get higher investments on the ground."

To this end, one of Kroes's first actions as Digital Agenda Commissioner was the adoption of an NGA Recommendation, which brings more clarity for both regulators and investors. "The NGA Recommendation defines how next generation networks should be regulated," says Tauber. "Again the Council's views have been taken into account in the framework. We're going to continue to follow up in the coming months with the national regulators to ensure an implementation of the NGA recommendation, in the EU member states, that is in favour of FTTH."



COMMUNICATIONS



FTTH Conference 2011

Creating a Brighter Future

9 & 10 February 2011, Milan



Hristo Stoykov, European Investment Bank



The largest FTTH event in the world!
More than 3,000 participants from 80 countries
130 Media Representatives from 18 countries



▲ Closing Speech by Neelie Kroes, Vice President of the European Commission and European Digital Agenda Commissioner

◀ Opening Speech by Dr. Letizia Moratti, Mayor of the City of Milan



Keynote speech by Carlota Perez, author of Technological Revolutions and Financial Capital: the Dynamics of Bubbles and Golden Ages



New : Pre-Conference Workshops



100 exhibitors showing the latest FTTH solutions.
FTTH Conference 2011 raises "green donation" for Italian environmental association Pro Natura.



125 Speakers including high-level opinion leaders, for instance financiers such as the European Investment Bank and the Communication Infrastructure Fund



انقل حياتك لافاق جديدة
٣٠ نوفمبر و ١ ديسمبر ٢٠١٠، بيروت، لبنان

FTTH Middle East

Conference 2010

The second edition of the FTTH Middle East Conference gathered close to 300 participants from 30 countries in Lebanon's capital city, Beirut.



◀ Opening speech by HE Eng. Charbel Nahas, Minister of Post and Telecommunications of the Republic of Lebanon, patron of the conference

Keynote speech by Dr. Imad Hoballah, Acting Chairman and CEO, telecommunications Regulatory Authority of Lebanon ▶



Creation of FTTH Middle East Council: Initially gathered in a regional working group of the FTTH Council Europe, members with interest in the Middle East Region are in the process of officially creating the FTTH Council Middle East & North Africa in 2011, based in Dubai.

The announcement of the United Arab Emirates's entry into the prestigious FTTH Global Ranking was made at the conference, showing that FTTH is already an important market in the Region.



Press relations

188 interviews with media in 21 countries
4 press conferences in Milan (2), Paris and Beirut:



New: FTTH Council Europe in social media



139 press clippings in various languages including key national media



3 national media campaigns in Germany, UK and Italy

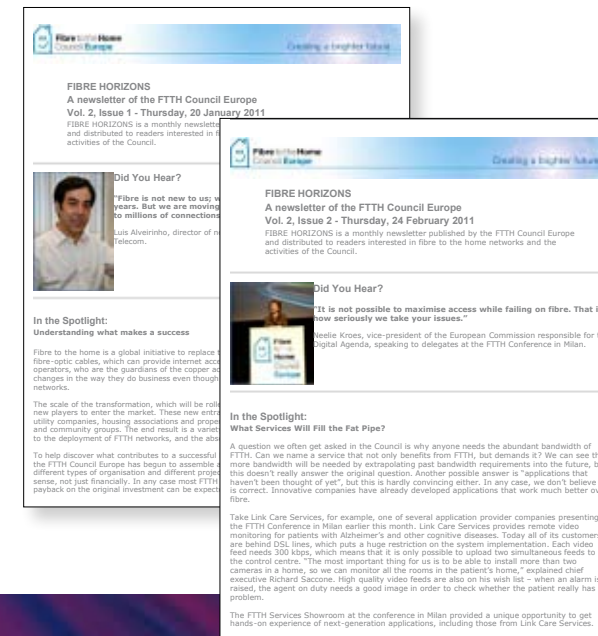
External events

33 speakers at external events in 23 countries
 New: Booth at CeBIT in March 2011
 New: Corporate clip



New: Fibre Horizons

9 issues of the monthly newsletter, launched in May 2010, featuring:
 • “Did you hear”: quote of the month
 • “In the spotlight”: focus of the month



51 press releases in various languages:

Arabic, Dutch, English, French, German, Italian, Lithuanian, Portuguese, Romanian, Spanish, Turkish





Fibre to the Home
Council Europe

PEOPLE

Inside the FTTH Council Europe – how does it work?



Partnerships to join forces

The FTTH Council Europe has signed Memorandums of Understanding with a selected number of partners. These formal partnerships allow the FTTH Council Europe to join forces with organisations that have similar objectives and to multiply the impact of the activities of the FTTH Council Europe. In 2010-2011, three new partnerships were signed.

Credo

Founded in 1993, CREDO is a French organisation whose objective is to promote the use of fibre technology in broadband infrastructure. This includes technical solutions as well as services that can be delivered on fibre broadband. CREDO defines itself as a "forum" for their members to exchange experience and expertise. www.cercle-credo.com

Fiber Optics Valley

Fiber Optics Valley is an organisation working to turn Sweden into the world leader in the development of products and services based on fibre optics. Their core business is to assist the growth of global and local companies. This is achieved through research, training, financing, contacts and business development support, combined with a unique environment for technical tests and behavioural science studies. www.fiberopticalvalley.com

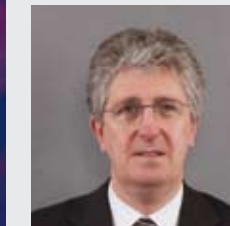
SAMENA Telecommunications Council:

SAMENA Telecommunications Council aims to be the ultimate promoter of telecom innovations in its member regions and a facilitator for collaboration and knowledge-sharing between regional telecom entities. Such cooperation between operators, vendors, manufacturers, entrepreneurs, educators, R&D experts, and regulators aims to contribute to solving technical, economical, and legal issues in regions where tough economic and regulatory environments prevail. www.samenacouncil.org

Global Cooperation

The three independent Councils in Europe, Asia Pacific and North America are working closely together in the International Advisory Group.

Board of Directors



Chris Holden
Corning
President



Sophie Pautonnier
Mitsubishi
Treasurer
& Member of the Board



Peleg Erlich
ECI Telecom
Member of the Board
Until January 2011



Eric Festraets
Alcatel-Lucent
Member of the Board



Albert Grooten
Draka Communications
Member of the Board



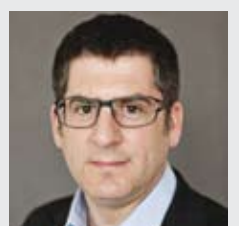
Martin Hatas
Ericsson
Member of the Board
Until October 2010



Rolf Johansson
Ericsson
Member of the Board
From October 2010



Matthias Nass
ECI Telecom
Member of the Board
From January 2011



Paul Schwartz
PacketFront
Member of the Board

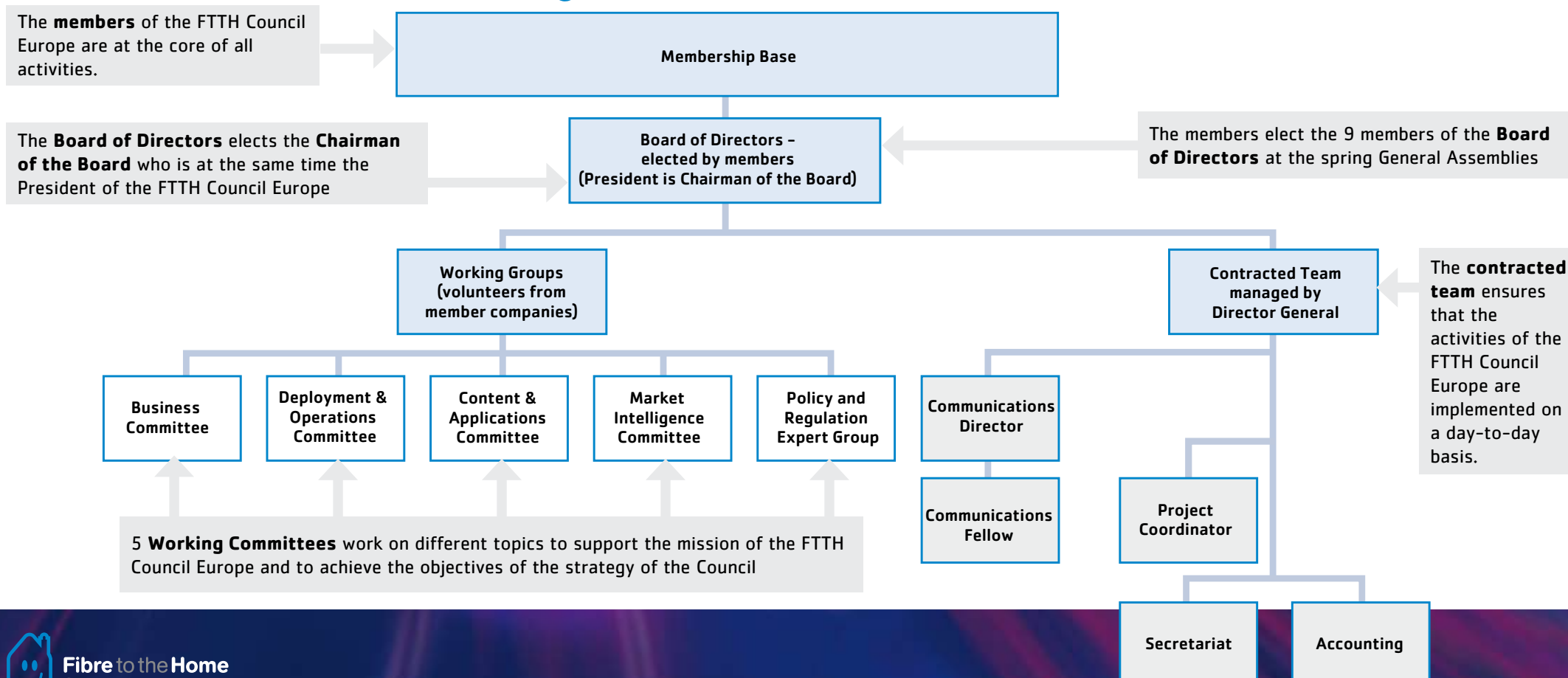


Richard Thomas
Prysmian
Member of the Board

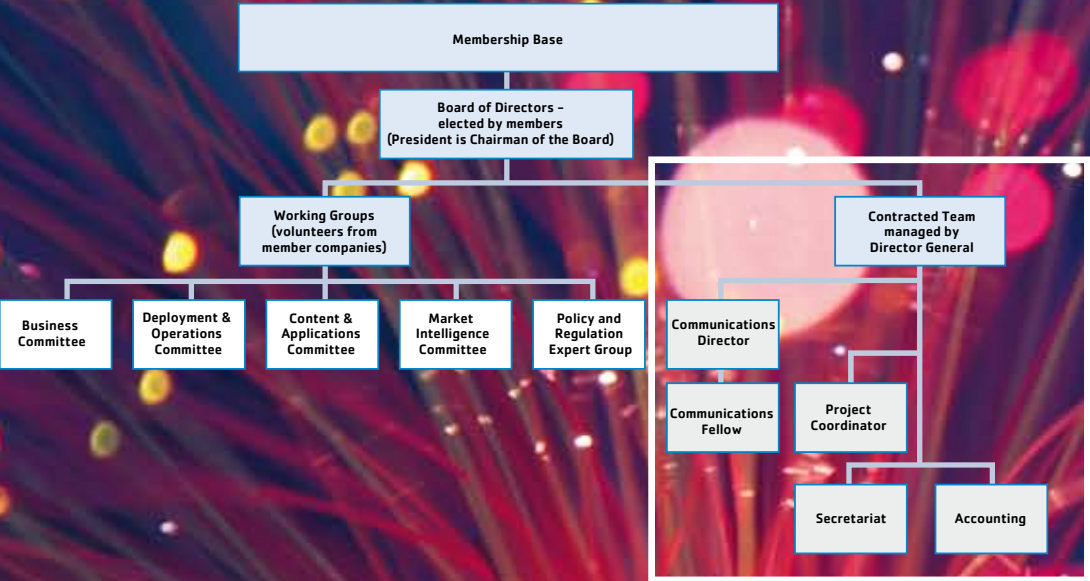


Pastora Valero
Cisco
Member of the Board

Organisational Structure



The team consists of the **Director General** who is responsible for the management of the FTTH Council Europe, the **Communications Director** who organises the marketing and communication of the organisation with the support of the **Communications Fellow**, the **Project Coordinator** who supports and coordinates the work of the committees, and **Secretariat** and **Accounting** support.



Team



Director General

Hartwig Tauber

Director General

Communications Director

Nadia Babaali

Communications Director

Communications Fellow

Sally Van den bemden

Communications Fellow

Project Coordinator

Project Coordinator

Natascha Weinstabl

Secretariat

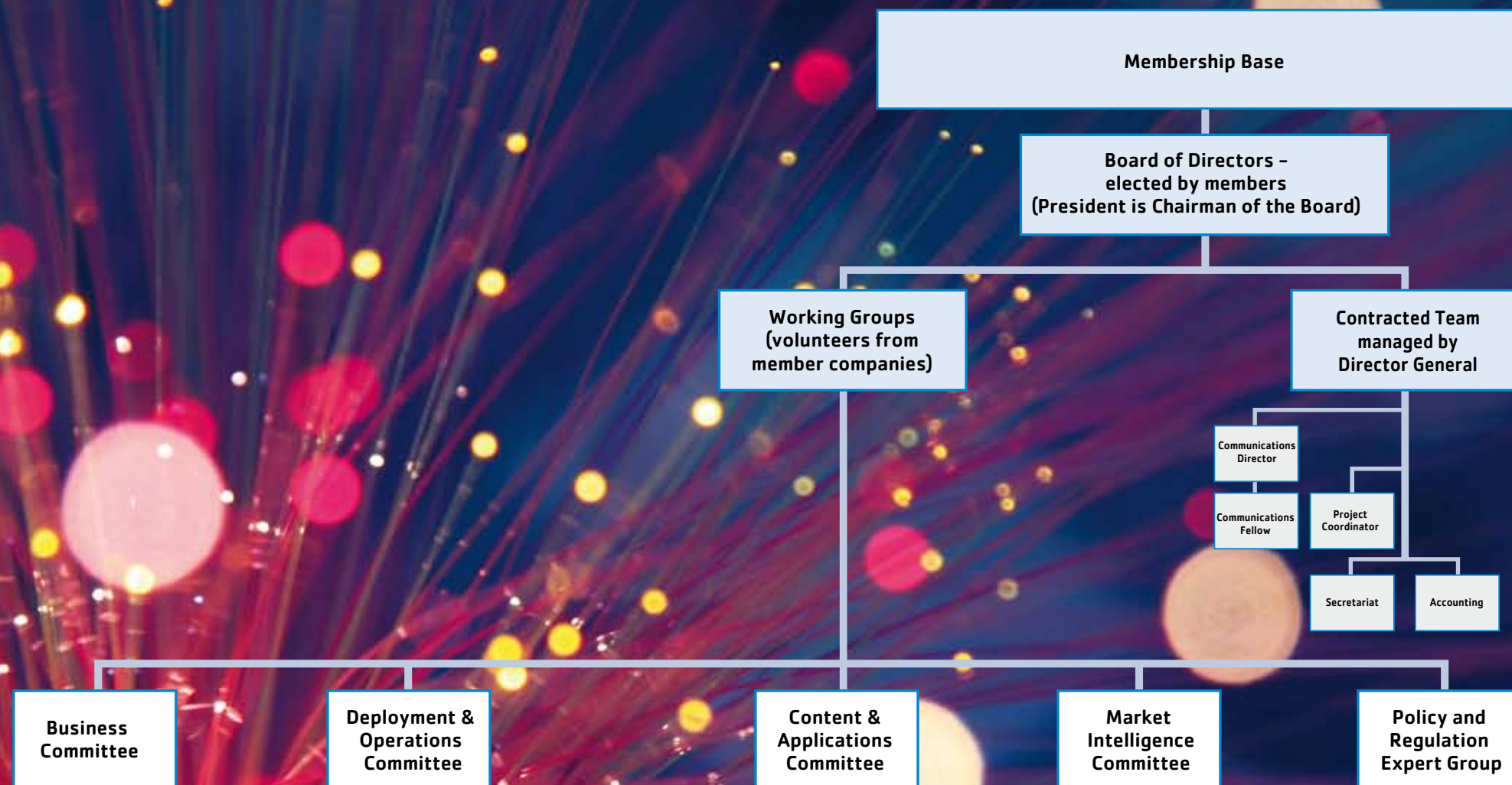
Accounting

Secretariat

Sonja Kamhuber

Accounting

Marie-Alix Lebrun



Committees

Business Committee

The Business Committee has a strong focus on the questions about the business case of fibre networks. This includes planning, financing, implementing and operating those networks. The Business Committee is responsible for the "FTTH Business Guide".



Chair
Karin Ahl
Rala Infratech



Chair
Pierre Pigaglio
P&T Consulting

Deployment & Operations Committee

This committee discusses all technical aspects of fibre networks. This includes the passive and active part of the network as well as deployment methods, network architectures and new fibre technologies. The Deployment & Operations Committee is responsible for the "FTTH Handbook".

Content & Applications Committee

What new content, applications and services are enhanced or enabled by fibre networks? The Content & Applications Committee is working on projects to give an answer to this question. By doing so, it also brings together the technical side of the FTTH networks with the content and service industry.



Chair
Paul Schwartz
PacketFront

Market Intelligence Committee

The objective of the Market Intelligence Committee is to provide information about the latest market data and market developments to the FTTH Council Europe. This includes topics like pricing of fibre networks, the use of bandwidth or the strategic service portfolio for operators. The Market Intelligence Committee is responsible for the FTTH market panorama, including the FTTH European Ranking, and the FTTH market forecast.



Chair
Jan Schindler
Draka Communications

Policy & Regulation Expert Group

The Policy & Regulation Expert Group has a clear focus on the regulatory and policy framework for fibre network. This includes contacts to European Commission and regulators as well as workshops and inputs for national and regional policy makers.



Chair
Hartwig Tauber
Director General
FTTH Council Europe



Resources and Publications

New Publications:

- FTTH Business Guide – Second edition
- FTTH Technical Handbook – Fourth edition
- Fibre Horizons – monthly newsletter

Website: www.ftthcouncil.eu

– free downloads of Fibre Horizons newsletter, reports summaries, Business Guide, Handbook, Annual Reports, case studies, presentations, photos, clips, press releases, press clippings etc.

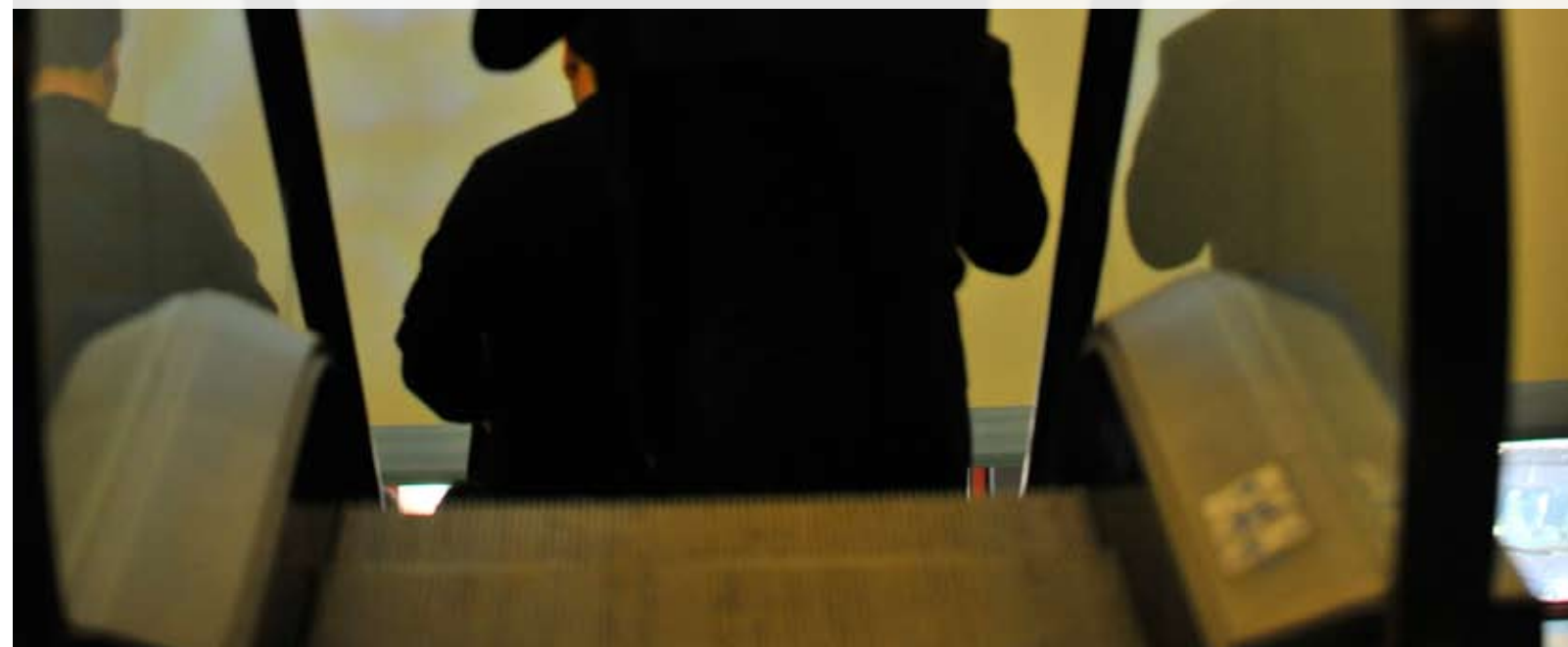
Wiki: <http://wiki.ftthcouncil.eu>

Social Media:

- LinkedIn: FTTH Council Europe & Business Guide – FTTH Council Europe Groups
- Facebook: FTTH Council Europe Group
- Twitter: FTTHCouncilEU



See you at the next **FTTH Conference**
in **Munich** on **14 - 16 February 2012**



Members



- 3M Telecommunications
- Acome
- Acreo
- ADC KRONE
- Adtran
- ADVA
- AFL Telecommunications
- Alcatel-Lucent
- Alphion Corporation
- Allied Data Technologies
- Dr. Mohamad Amar
- Anritsu EMEA Ltd
- Apresa - PLP Spain S.A.
- ATC Amwaj Telecommunication MFG Company
- Athens Information Technology
- Bael Ingenieria
- BAM Infratechnik
- Karl Bauer Consultant
- Bentley Systems Europe
- Bin Omran trading & telecommunication's
- BKtel Communications
- braun teleCom
- Broadlight
- BT-AT
- Camozzi
- Canovate Group
- CATV Satellitentechnik (Swissfibertech)
- CBE
- Channell
- Cisco Systems
- CME
- Compel Electronics
- Comptoir des Signaux
- COMSOF NV
- Corning
- CTTS Training
- Dätwyler Cables
- Detecon International GmbH
- Diamond
- DKT
- Draka Communications
- DSM Desotech
- Duraline
- ECI Telecom
- Egeplast
- United Industries - El Sewedy
- Elcon System
- EMC Electronic Media Communication
- Emtelle
- Enablence
- Ericsson
- Esri
- ETD Europe
- Euromicron
- Exfo Europe
- Fiber4All
- Fiberdk Aps
- Fibox Oy
- Fibrefab
- Fraunhofer Institut
- Fujikura Europe Limited
- Gabo Systemtechnik
- GE Energy
- Genexis
- Gerald Glaise
- Giza Systems
- Global Invacom
- GM Plast
- GNS
- Hellermann Tyton
- Hexatronic
- Hitachi
- Hochschule Furtwangen University
- Huawei
- Huber+Suhner
- ICTL
- Infotech Enterprises Europe
- INSTITUT TELECOM
- Instituto Politécnico de Viana do Castelo
- Inteno Broadband Technology AB
- IP.NetCom Vertriebs- und Consulting GmbH
- Iskratel
- Italtel S.p.A.
- ITL
- JDSU
- Kabelovna Decin Podmokly, s.r.o.
- Kathrein-Werke
- KEYMILE
- Kjaerulff 1
- KKE (Kiasa Kish Ertebatat FZCO)
- KeyFibre Network Components S.L.
- LEONI NBG Fiber Optics
- LG-Ericsson
- Map Group (uk)
- Marais Groupe
- Mejdaf Trading Group
- Micos
- Mitsubishi Electric
- Motorola
- Mulder-Hardenberg
- NetAdmin Systems
- Nexans
- Nokia Siemens Networks
- NTT Electronics
- NYCE Networks, Inc.
- Occam Networks
- OFS Fitel Netherlands bv
- Optilan
- Optotec
- P&T Consulting
- Pacific Broadband Networks BV
- Packetfront
- Pengg Kabel GmbH
- Plumettaz
- Prysmian
- Radius Systems
- Rala Infratech AB
- Rawabi Telecom & Software
- RDM
- Resulture
- Richco
- Rittal
- Scheu Netzplanung
- Senko
- Sigma Systems Canada Inc.
- Signal Telecom & IT Systems
- Silec Cable
- Sitel
- Sotetel
- Spyra Primo
- SSD
- Suttle
- Sterlite Optical Technologies
- Teldat
- Telenco
- Teleste
- Teraspan Networks
- Tilgin
- Triax
- TVC UK Holding
- Twentsche Kabelfabriek
- Tyco Electronics
- Vienna University of Economics and Business (Wirtschaftsuniversität Wien)
- Visabeira Global
- Visipia
- Volker Wessels Telecom
- Wavin
- WISI
- Zhone Technologies
- ZTE Corporation
- Zweicom

