OP 4.3.3

Follow up innovation workshops

CENTRAL EUROPE Programme 2007 – 2013

PRIORITY 1: Facilitating innovation across Central Europe

Document Classification

Title	Follow up innovation workshops
Output	4.3.3
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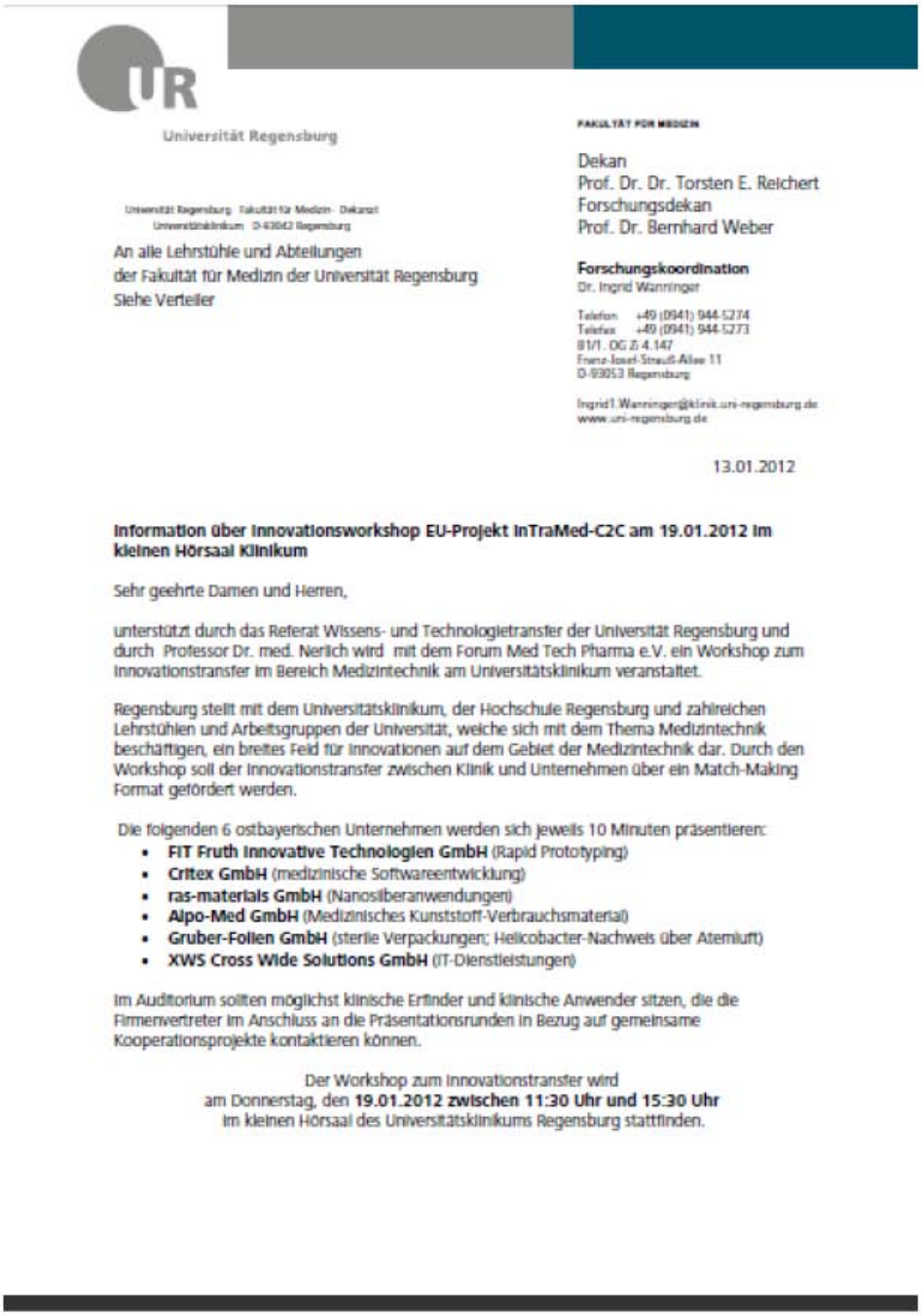
Authors	*Dieter Westphal, LP; Contributions from all PPs*
Work package	4 | 4.3 Implementation
Dissemination level	Public
Nature	Report
Version	1 .0
Doc ID code	
Summary	Based on the pilot workshops and follow-up activities further workshops will be performed, min. 2 per partner and region. The conclusions from the previous evaluations will be integrated.

	LP	PP3	PP4	PP5	PP6
4.3.3 Follow up innovation workshops					
Date	19.01.2012	21.09.2012	02.08.2012		01.03.2012
Location	Regensburg	Linz	Bressanone		Krakow
Participants	17	16	10		12
Date	16.01.2013	09.08.2012	07.08.2012		08.08.2012
Location	Prien	Linz	Bolzano		Krakow
Participants	27	3	5		14
Date			21.08.2012		
Location			Prissian		
Participants			7		
Date			27.08.2012		
Location			Meran		
Participants			10		
Date			22.01.2013		
Location			Bozen		
Participants			8		
Date			29.01.2013		
Location			Bozen		
Participants			6		

	PP8	PP9	PP10	PP11	PP12
Date	27.03.2012		20.02.2012	06.03.2013	27.02.2012
Location	Kranj		Budapest	Debrecen	Erlangen
Participants	17		10	26	2
Date	14.05.2012		07.06.2012		03.07.2012
Location	Jesenice		Budapest		Erlangen
Participants	22		5		2
Date			15.06.2012		20.01.2012
Location			Budapest		Nuremberg
Participants			12		3
Date			15.10.2012		
Location			Budapest		
Participants			8		
Date			18.06.2012		
Location			Budapest		
Participants			5		
Date			16.07.2012		
Location			Budapest		
Participants			5		
Total: 24 Follow-up meetings with more than 250 participants					

Bayern Innovativ GmbH / Forum MedTech Pharma e.V.

Invitation



Universität Regensburg

Universität Regensburg · Fakultät für Medizin · Dekanat
Universitätsklinikum · D-93042 Regensburg

An alle Lehrstühle und Abteilungen
der Fakultät für Medizin der Universität Regensburg
Siehe Verteiler

FAKULTÄT FÜR MEDIZIN

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13.01.2012

Information über Innovationsworkshop EU-Projekt InTraMed-C2C am 19.01.2012 im kleinen Hörsaal Klinikum

Sehr geehrte Damen und Herren,

unterstützt durch das Referat Wissens- und Technologietransfer der Universität Regensburg und durch Professor Dr. med. Nerlich wird mit dem Forum Med Tech Pharma e.V. ein Workshop zum Innovationstransfer im Bereich Medizintechnik am Universitätsklinikum veranstaltet.

Regensburg stellt mit dem Universitätsklinikum, der Hochschule Regensburg und zahlreichen Lehrstühlen und Arbeitsgruppen der Universität, welche sich mit dem Thema Medizintechnik beschäftigen, ein breites Feld für Innovationen auf dem Gebiet der Medizintechnik dar. Durch den Workshop soll der Innovationstransfer zwischen Klinik und Unternehmen über ein Match-Making Format gefördert werden.

Die folgenden 6 ostbayerischen Unternehmen werden sich jeweils 10 Minuten präsentieren:

- **FIT Fruth Innovative Technologien GmbH** (Rapid Prototyping)
- **Critex GmbH** (medizinische Softwareentwicklung)
- **ras-materials GmbH** (Nanosilberanwendungen)
- **Alpo-Med GmbH** (Medizinisches Kunststoff-Verbrauchsmaterial)
- **Gruber-Folien GmbH** (sterile Verpackungen; Helicobacter-Nachweis über Atemluft)
- **XWS Cross Wide Solutions GmbH** (IT-Dienstleistungen)

Im Auditorium sollten möglichst klinische Erfinder und klinische Anwender sitzen, die die Firmenvertreter im Anschluss an die Präsentationsrunden in Bezug auf gemeinsame Kooperationsprojekte kontaktieren können.

Der Workshop zum Innovationstransfer wird
am Donnerstag, den **19.01.2012 zwischen 11:30 Uhr und 15:30 Uhr**
im kleinen Hörsaal des Universitätsklinikums Regensburg stattfinden.

Wir laden Sie und Interessierte an Ihrem Lehrstuhl bzw. aus Ihrer Abteilung dazu recht herzlich ein.
Bitte geben Sie diese Information an Interessierte innerhalb Ihres Lehrstuhls weiter.
Wir freuen uns auf Ihre Teilnahme.

Mit freundlichen Grüßen

Gez.
Dr. Ingrid Wanninger

Forschungskoordination

Agenda Innovationsworkshop EU-Projekt InTraMed-C2C, kleiner Hörsaal des Universitätsklinikums Regensburg, 19.01.2012

Ab 11:30 Uhr	Begrüßung der 6 eingeladenen Firmen; Einladung zu kleinem Imbiss im Vorraum
12:00 Uhr	Beginn der Veranstaltung mit kurzer Vorstellung des Klinikums und des EU-Projektes InTraMed-C2C (Hr. Prof. Dr. med. Nerlich / Herr Dr. Frömer)
12:15 - 13:45 Uhr	jeweils 10 minütige Firmenpräsentation mit Schwerpunkt bisheriger Erfahrungen im Bereich Herstellung innovativer medizintechnischer Produkte / klinischer Kooperationsprojekte
13:45 - 15:30 Uhr	erste Kontaktaufnahme Ideengeber - Firmenvertreter; persönliche Vorstellung, Unterschrift Geheimhaltungsvertrag, Kooperationsgespräche
Ab 15:30 Uhr	offizielles Ende der Veranstaltung; Verabschiedung bei kleinem Kaffee

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E-Mail: froemer@medtech-pharma.de
InTraMed-C2C: http://intramed-c2c.eu
Central Europe Programme's website: http://www.central2013.eu

Attendees:

Teilnehmer Name	Unterschrift
Elke Achhammer	
Heinrich Schieferstein	
GRUBER ERICH	
Schneider Gregor	
SCHINDLER MICHAEL	
Gruber Renate	
Wolfgang Eder, Cluster Sensorik	
Stefan Kreitmeier	
Raffaele Antonucci	
Andreas Steinmüller	
Geis Sebastian	
Haim Christian	
ENGELRECHT, MARC	
Wanninger Ingrid	

Prof. Dr. med. Reinhard Andreesen
Prof. Dr. med. Michael Nerlich
Prof. Dr. med. Matthias Edinger

Minutes:

1. Introduction of InTraMed-C2Cs goals and relevant results achieved so far and the action plan to link the already existing parties present in Upper Bavarian University Hospitals in order to pave the way for an optimised and sustainable innovation transfer system from university clinics to companies
2. Short introduction of the LP, the 5 SMEs (between 11 and +40 employees) and representatives from the already existing innovation transfer institutions responsible for university hospitals. Short introduction of the university hospital Regensburg, department of trauma surgery, by Prof. Dr. med. Nerlich
3. Company presentations
4. Discussion and Get-Together

Results:

1. The special situation of German university hospitals with the patented inventions of their employees requires a special kind of workshop; all parties involved in the process of innovation transfer were present in order to avoid financial remuneration complications concerning the patent-claim
2. It has been shown at the TUM innovation workshop last autumn that a neutral moderator is a prerequisite in order to harmonise the different expectations of the parties, to harmonise the different point of views and to define and follow the goal of pushing the idea to market in cooperation with the Bavarian Patent Agency
3. Again, beginning the workshop with a refreshment showed to be a good way of getting into contact easily and the participants being late didn`t miss too much; it turned out to be very hard to attract physicians with ideas and to make them stay during the innovation workshop
4. A company present at the innovation workshop will further develop an innovation of BayPat; a cooperation between two attending companies has been stipulated
5. The follow-up workshop is planned for this summer

Minutes InTraMed-C2C innovation workshop January 16th, 2013, 4 – 7 p.m., RoMed Klinik Prien am Chiemsee: diabetic foot syndrome-treatment with the innovative method retrograde venous perfusion (RVP) therapy invented in Prien and described by Kommissari et al.

1. Introduction of RoMed clinic Prien by the medical director Prof. von Ritter, introduction of InTraMed-C2C and the Lead Partner by Dr. Frömer
2. Introduction of a live patient with diabetic foot syndrome treated with RVP
3. Powerpoint introduction of different cases of diabetic foot syndrome treated with RVP
4. Introduction of RVP treatment by Dr. Kommissari
5. Presentation of the innovation-transfer-system InTraMed-C2C
6. Introduction of an innovative production method for orthopedic shoes used by diabetic foot syndrome patients by a regional company
7. Discussion of sustainable ways of cooperation and regular meetings

Results:

1. Integrating the InTraMed-C2C innovation workshop in a continuing medical education session prooved to be a good way of keeping the physician`s interest focussed on innovation transfer for 90 minutes. In this interdisciplinary event there were 21 physicians present, including the chief physicians from internal medicine, surgery, anaesthesia, orthopedics (RoMed clinic Rosenheim) and the medical director of the clinc in Prien. The chief physician vascular surgery from a second clinic group (Schön clinics Vogtareuth) was also present
2. It was shown that the nursing staff plays a major role in the treatment of diabetic foot syndrome, especially concerning the wound healing process and the adaption of orthopedic shoes. There were 5 staff members present
3. It became clear that understanding the patient`s needs, the surgical technique and the nursing part of the wound healing is vital for medtech companies to develop better products in diabetic foot syndrome. The company representant got a deep insight in the therapy, and now can introduce his impressions in product development
4. Unfortunately both wound healing companies that already agreed to participate cancelled their attendance at short notice
5. A follow-up workshop is planned for June

Agenda Innovationsworkshop „Behandlungsmöglichkeit der diabetischen Gangrän mittels retrograder venöser Perfusion“, Cafeteria des neuen Seebettenhauses, RoMed Klinik Prien am Chiemsee, 16.01.2013

Ab 16:00 Uhr Begrüßung der Firmenvertreter mit kleinem Imbiss

16:30 Uhr Beginn der Veranstaltung mit kurzer Vorstellung des Fußzentrums Prien und des EU-Projektes InTraMed-C2C (Herr Prof. Dr. med. von Ritter, Ärztlicher Leiter, Chefarzt innere Medizin, RoMed Klinik Prien; Herr Dr. Frömer, Forum MedTech Pharma e.V.)

17:00 – 17:30 Uhr Vorstellung der weiterentwickelten Behandlungsmethode von Herrn OA Dr. med. Stefan Kommissari

17:30 – 18:00 jeweils 10minütige Firmenvorstellung durch Repräsentanten mit Schwerpunkt bisheriger klinischer Erfahrungen im Bereich Wundversorgung bei diabetischer Gangrän; erste Diskussion, wie eine Produkteinbeziehung bzw. -weiterentwicklung organisiert werden könnte

Ab 18:30 Uhr offizielles Ende der Veranstaltung, kleiner Imbiss

19:00 – 20:00 Uhr Möglichkeit direkter Kooperationsgespräche, Geheimhaltungs-vereinbarung

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InTraMed-C2C: http://intramed-c2c.eu
Central Europe Programme's website: http://www.central2013.eu

RoMed
Klinik Prien am Chiemsee

Innere Medizin

Akademisches Lehrkrankenhaus der
Ludwig-Maximilians-Universität München

Prof. Dr. med. C.v. Ritter, PhD, AGAF

Harrasser Straße 61 - 63
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Tel +49 (0) 8051 - 600 541
Fax +49 (0) 8051 - 600 523
michaela.fischer@ro-med.de

RoMed Klinik Prien am Chiemsee · Harrasser Straße 61 - 63 · 83209 Prien

Sehr geehrte Kolleginnen, sehr geehrte Kollegen,

sehr herzlich laden wir Sie ein zur

4. interdisziplinären Falldemonstration
des
Fusszentrums Prien

Termin: Mittwoch, den 16. Jan. 2013, um 15.30 Uhr

Ort: RoMed Klinik Prien,
Multifunktionsraum im Seebettenhaus (Erdgeschoß)

Programm:

1. Patientenvorstellung

2. Innovations-Workshop
Hierzu haben wir diesmal Herrn Dr. Frömer von Bayern Innovativ zu Gast. Er hat einen Workshop im Rahmen eines EU-geförderten Projekts zum Innovationstransfers von Kliniken zu Firmen vorbereitet. Es werden Hersteller und Interessenten für innovative Wundversorgung anwesend sein und sich über die bei uns praktizierte Behandlung der diabetischen Gangrän informieren. In Kurzpräsentationen wird unter anderem die retrograd-venöse-Perfusion (RVP) vorgestellt werden. Die interdisziplinäre Art unserer Therapie wird anhand von Falldemonstrationen dargestellt werden.

Wir freuen uns auf Ihr Kommen.

Prof. Dr. med. J. Stadler
Chefarzt Chirurgie

Prof. Dr. med. C. von Ritter
Chefarzt Innere

Bitte bringen Sie Ihre Barcode-Aufkleber mit (4 Punkte)

Clusterland Upper-Austria - PP3:

Agenda:

Date: 9th of August 2012, 10 am

Participants:
Sabine Fosodeder, Clusterland GmbH
Silke Auer, External Expert Clusterland GmbH
Christoph Macho, AKH Linz

- Introduction of Idea and product requirements through head of nursing staff
- Inspection of current solution and product surroundings
- Non-disclosure agreement
- Clarification of project requirements

Current product used:

Problem: other systems used within the ER – emergency room should be attached directly on the bed.

List of Participants

	Firma	Vorname	Nachname
1	abatec group AG	Martin	Bernreiter
2	abatec group AG	Manuel	Eizinger
3	AKAtech Produktions- und Handels GmbH	Lutz	Heinrich
4	AKAtech Produktions- und Handels GmbH	David	Seemayr
5	AMiSTec GmbH & Co. KG	Gerald	Lasslberger
6	Clusterland OÖ GmbH	Sabine	Fosodeder
7	ekey biometric systems GmbH	Leopold	Gallner
8	Lauer innovation GmbH	Daniel	Schaffarzick
9	H+H System" Ladeneinrichtungen - Handelsgesellschaft m.b.H.	Heimo	Hrovath
10	Heson Metall- und Kunststofftechnik GmbH	Christian	Aschauer
11	Miele Werk Bürmoos GmbH	Peter	Gritsch
12	System Industrie	Sascha	Österle
13	Georg Krämer Gesellschaft m.b.H. & Co. KG	Stefan	Rap
14	Krankenhaus Elisabethinen (IKT)	Karl	Weidenauer
15	Krankenhaus Elisabethinen (Vertretung der Pflegedirektion)	Andreas	Haydn
16	Krankenhaus Elisabethinen (Vertretung Ärzte)	Elisabeth	Haschke-Becher

AGENDA

Info-Workshop „Projektpartnersuche für einen Multifunktionswagen“ am Freitag, 21.09.2012

Eintreffen der Teilnehmer
Abgabe der Original-Geheimhaltungserklärung

Vorstellung der teilnehmenden Unternehmen
Vorstellung der Rahmenbedingungen für Clusterkooperationsprojekte durch den Gesundheits-Cluster

Vorstellung der Idee durch den Ideengeber

Zeit für offene Fragen

Vorschau auf die weiteren Schritte

www.gesundheits-cluster.at CLUSTERLAND OBERÖSTERREICH GmbH

Non-disclosure agreement
Introduction of companies
Clarification of project requirements
Introduction of Idea and product requirements through hospital staff: representative of physicians, hygiene and nursing staff

TIS innovation park - PP4:

Bozen, 21/01/2013

Michaela Egebrecht
Projektleitung InTraMed-C2C

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GEHEIMHALTUNGSVEREINBARUNG

abgeschlossen zwischen **Institution A** in Vertretung von **[Vor- und Nachname]** und

Institution B in Vertretung von

[Vor- und Nachname] für den folgenden Zweck:

Präambel

Die Parteien beabsichtigen über die **Produktentwicklung eines** ... näher zu verhandeln und evaluieren derzeit die Chancen und technischen Details eines derartigen Projektes. Zum Zwecke derartiger Verhandlungen und Evaluierungen erfolgt die Offenlegung von vertraulichen Informationen. Diese Vereinbarung dient der Wahrung der Vertraulichkeit der von jeder Partei offengelegten Information.

Vertrauliche Informationen

Vertrauliche Informationen im Sinne dieser Vereinbarung umfassen den Abschluss dieses Geheimhaltungsvertrages, die Tatsache, dass die Parteien Verhandlungen hinsichtlich des in der Präambel näher umschriebenen Projekts führen, einschließlich des Inhalts dieser Verhandlungen und sämtlicher im Rahmen dessen übergebenen Unterlagen und mitgeteilter Informationen, insbesondere der darin enthaltenen Geschäfts- und Betriebsgeheimnisse.

Als vertraulich gelten nicht Informationen,

die zum Zeitpunkt der Unterfertigung dieses Vertrages allgemein bekannt waren,

oder die zu einem späteren Zeitpunkt allgemein bekannt wurden, jedoch nicht durch eine Verletzung dieses Geheimhaltungsvertrages,

oder von welchen der Empfänger der Informationen vor Abschluss dieses Vertrages nachweislich bereits Kenntnis hatte,

oder die der Empfänger von einem Dritten, der zur Weitergabe der Informationen berechtigt ist, erhalten hat,

oder hinsichtlich welchen sich die Parteien schriftlich einigen, sie nicht als vertraulich zu behandeln.

Verpflichtung zur Geheimhaltung

Die Parteien verpflichten sich, jegliche vertrauliche Information streng vertraulich zu behandeln und dafür Sorge zu tragen, dass unbefugte Dritte, insbesondere Personen, die nicht in das Projekt involviert sind, keine Kenntnis hiervon erlangen können. Diese Verpflichtung zur Geheimhaltung der erlangten Informationen schließt insbesondere die

Pflicht ein, vertrauliche Informationen nicht für andere als die in der Präambel genannten Zwecke zu nutzen.

Die Parteien verpflichten sich ferner im Falle einer gesetzlich zwingenden Offenlegung von vertraulichen Informationen diese Tatsache und den Umfang der offenzulegenden vertraulichen Informationen sofort der anderen Partei mitzuteilen. Die Partei, die zur gesetzlich zwingenden Offenlegung verpflichtet ist, wird weiters vertrauliche Informationen nur im zwingend notwendigen Ausmaß offenlegen.

Überbindung der Verpflichtung zur Geheimhaltung

Die Parteien verpflichten sich, vertrauliche Informationen ausschließlich solchen Mitarbeitern oder ausgewählten externen Personen wie etwa Steuerberatern oder Wirtschaftsprüfern, Rechtsanwälten oder anderen Beratern zu offenbaren, die für die in der Präambel genannten Zwecke unbedingt Zugang erhalten müssen. Die Parteien verpflichten sich dafür Sorge zu tragen, die in diesem Vertrag enthaltene Geheimhaltungsverpflichtung sämtlichen Personen, welchen vertrauliche Informationen im Sinne dieses Vertrages weitergegeben werden, schriftlich zu überbinden.

Die verletzende Partei hält die jeweilige andere Partei für sämtliche Schäden aufgrund einer Verletzung dieser Verpflichtung unverzüglich schad- und klaglos.

Über Aufforderung einer Partei ist der Nachweis der Überbindung der Verpflichtung zur Vertraulichkeit umgehend zu erbringen.

Bei Mitarbeitern ist die Geheimhaltungsverpflichtung derart zu gestalten, dass die Verpflichtung den Mitarbeiter auch nach Beendigung des Anstellungsverhältnisses zur Vertraulichkeit im gesetzlich zulässigen Ausmaß bindet.

Schriftliche Unterlagen

Soweit schriftliche Unterlagen vertrauliche Informationen enthalten oder vertrauliche Informationen in sonstiger greifbarer Form überlassen werden, ist die Anfertigung von Kopien ausschließlich zum Zwecke der Durchführung des in der Präambel genannten Zwecks gestattet.

Sämtliche der anderen Partei übergebenen Unterlagen, angefertigte Kopien sowie eigene Aufzeichnungen über vertrauliche Informationen wird die andere Partei unverzüglich zurückgeben oder vernichten und alle elektronisch gespeicherten Daten löschen, falls

eine der Parteien an der Verfolgung der in der Präambel genannten Zwecke nicht weiter interessiert ist;

eine Partei dazu schriftlich von der anderen Partei aufgefordert wird.

Über Aufforderung hat die aufgeforderte Partei der auffordernden Partei schriftlich zu bestätigen, dass sie dieser Verpflichtung nachgekommen ist. Jede Partei nimmt ausdrücklich zur Kenntnis, dass sie an erhaltenen Unterlagen oder Informationen keinerlei Zurückbehaltungsrecht besitzt und alle Unterlagen und Dokumentationen ohne Kostenersatz zu retournieren sind.

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Keine Partei erwirbt an den von der anderen Partei erhaltenen Informationen Eigentums- oder Nutzungsrechte jedweder Art. Sämtliche geistigen Eigentumsrechte oder Urheberrechte verbleiben bei der offenlegenden Partei. Beide Parteien verpflichten sich wechselseitig, die jeweils von der anderen Partei erhaltenen Informationen nicht Gegenstand einer Schutzrechtsanmeldung zu machen oder durch Dritte vornehmen zu lassen.

Haftung

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Sofern in irgendeiner Form eine Verletzung der Geheimhaltung eingetreten ist, ist sofort die davon betroffene Partei zu informieren.

Gerichtsstand, anwendbares Recht

Ausschließlicher Gerichtsstand für Streitigkeiten aus und im Zusammenhang mit dieser Vereinbarung ist das am Sitz der Institution A sachlich und örtlich zuständige Gericht.

Auf diese Vereinbarung ist XY Recht anwendbar.

Schlussbestimmungen

Sollte eine Bestimmung dieser Vereinbarung unwirksam sein oder werden, so wird die Gültigkeit der übrigen Bestimmungen dieser Vereinbarung nicht berührt. Anstelle der unwirksamen Bestimmung(en) soll eine Regelung gelten, die im Rahmen des rechtlich Möglichen dem Willen der Parteien am Nächsten kommt und in ihrer wirtschaftlichen Auswirkung am besten der(den) unwirksamen Bestimmung(en) entspricht.

Diese Vereinbarung enthält alle zwischen den Parteien getroffenen Vereinbarungen. Nebenabreden bestehen nicht.

Änderungen oder Ergänzungen dieser Vereinbarung bedürften zu ihrer Wirksamkeit der Schriftform. Dies gilt auch für das Abgehen vom Schriftformgebot.

[Vor- und Nachname], am [DATUM] _____
Institution/Unternehmen A

[Vor- und Nachname], am [DATUM] _____
Institution/Unternehmen B

August 2nd - Hospital Bressanone

August 7th - Villa Melitta Bolzano

August 7th - Hospital Bolzano

August 21st - Salus Center Prissian

Meeting Notes

Participants: Michaela Kozanovic, TIS innovation park
Franco Staffa, TIS innovation park
Verena Wieser, TIS innovation park

Team Salus Center:
Managing Directors
Heads of Nursing and Medical Director
Head of Physiotherapy

Location: Salus Center, Prissian

Data: August 21st, 2012

About: **Innovation-Workshop at Salus Center in Prissian**

Information:

This workshop has been held at the Salus Center in Prissian. The idea of this workshop emerged as a result of introducing the team to the innovation database and the possibility to search for new products that can be helpful for the partly reconstruction of the Salus Center.

One precise need at the moment are sanitary facilities tailor made for people that got a hip replacement.

Salus Center has already been working on special seat cushions for their patients. Applying for a patent for this product has been considered.

Further product ideas are expected in the field of rehabilitation.

August 27th - Hospital Merano

January 22nd - EURAC Research

Agenda:

Non-disclosure agreement
Introduction of companies
Clarification of project requirements
Technical requirements and considerations
Financing issues

Item	Topic	Notes	Decisions
1	**Aim of project / application**	To develop a non-invasive device (epitympanic thermistor-based thermometer) for measurement of core body temperature Application 1. Deeply hypothermic patients – however this is a small population--only ca. 100 in Alps annually 2. Monitoring during therapeutic hypothermia – this is a standard treatment protocol after cardiac arrest; must maintain target temperature of 32-34°C; negative consequences of both over- and undercooling so maintenance in this temp range as well as carefully monitoring of cooling and rewarming phases is critical	
2	**Next steps**	Steps based on standard procedure of product development at TIS: **1. Product idea description, manual of technical specifications ("Lastenheft")** 2. Look for potential partners and present them to the inventor 3. Sign confidential agreement with each potential partner; 4. Discuss the competences of each partner 5. Outline of roles of each partner; clarification of contributions and needed investments on the basis of written offers, 6. Sign cooperation contract and outline distribution of income 7. Start of product development 8. Definition of milestones and timeframe for the product development process. Patent research: - should be done by investor along with their market research - Fraunhofer does patent research if starting a new development project - important to work with partners with experience in medical devices because of issues of risk and medical requirements for new devices	**Technical specifications** - EURAC to develop list of requirements from medical side - potential collaboration from Fraunhofer for technical side **NDA (Non-disclosure agreement)** - TIS will send NDA document soon **Project coordination** TIS offers project coordination.

Item	Topic	Notes	Decisions
3	**Financing issues and partnerships**	**Financing:** - goal would be to gain financial interest from companies - from 20 development ideas collected in Intramed, TIS will advise some to make submission for new funding program in 2013/14 - time required for application to external funding must be considered; not foreseen at this point for this project Financing and partnerships, experience from TIS: - good best-practice models from projects in Austria for example of funding sources and roles; also examples from Bolzano with financial support from Province	
4	**Recommended literature**	Walpoth BH, Galdikas J, Leupi F, et al.: Assessment of hypothermia with a new "tympanic" thermometer. *Journal of clinical monitoring* 1994;10:91–96. Brinnel H, Cabanac M: Tympanic temperature is a core temperature in humans. *Journal of Thermal Biology* 1989;14:47–53. Wartzek T, Muhlsteff J, Imhoff M: Temperature measurement. *Biomedizinische Technik / Biomedical engineering* 2011;56:241–257. McCarthy PW, Heusch AI: The vagaries of ear temperature assessment. *Journal of medical engineering & technology* 2006;30:242–251. Sato KT, Kane NL, Soos G, et al.: Reexamination of tympanic membrane temperature as a core temperature. *Journal of Applied Physiology* 1996;80:1233–1239. Mariak Z, White MD, Lyson T, et al.: Tympanic temperature reflects intracranial temperature changes in humans. *Pflugers Archiv European journal of physiology* 2003; 446:279–284. Shin J, Kim J, Song K, et al.: Core temperature measurement in therapeutic hypothermia according to different phases: Comparison of bladder, rectal, and tympanic versus pulmonary artery methods. *Resuscitation* 2013; doi: 10.1016/j.resuscitation.2012.12.023. [Epub ahead of print].	

Summary of next steps:

TIS to send NDA to EURAC (and to Fraunhofer for information).
TIS to include overview of their development process in these minutes.
Fraunhofer to discuss internally if and to what extent they can participate.
List of technical requirements should be discussed internally and via email before next meeting.

DATE OF NEXT MEETING: 5 March 2013 @ 14.00
Agenda

- discussion of technical requirements
- market device, discussion of costs

EURAC research

Institute of Mountain Emergency Medicine

To	Minutes	Comments
Meeting attendants	Intramed Innovation Workshop	Development of epitympanic thermometer
	Supervisor Johannes Brunner / Michaela Egebrecht	
	Area Institute of Mountain Emergency Medicine	Venue / Date EURAC Bolzano / 22.02.2013
	Minutes by E. Procter	

Minutes of the

Intramed Innovation Workshop

date
22.02.2013

Name (in alphabetic order)	Presence	Absence	Signature
Avancini, Giovanni	x		
Brunner, Johannes	x		
Brugger, Hermann	x		
Egebrecht, Michaela	x		
Niedermayr, Florian	x		
Procter, Emily	x		
Strapazzon, Giacomo	x		
Weiß, Astrid	x		

Institute of Mountain Emergency Medicine

To	Minutes	Comments
Meeting attendants	InTraMed-C2C Innovation Workshop	Development of epitympanic thermometer
	Supervisor Johannes Brunner / Michaela Egebrecht Hermann Brugger	
	Area Institute of Mountain Emergency Medicine	Venue / Date EURAC Bolzano / 29.01.2013
	Minutes by E. Procter	

Minutes of the

Intramed Innovation Workshop

date
29.01.2013

Name (in alphabetic order)	Presence	Absence	Signature
Avancini, Giovanni	x		
Brunner, Johannes	x		
Brugger, Hermann	x		
Egebrecht, Michaela	x		
Kreuzer, Johannes	x		
Procter, Emily	x		

The John Paul II Hospital – PP6:

Invitation

Kraków, 24.02.2012 r.

ZAPROSZENIE

Dyrekcja Krakowskiego Szpitala Specjalistycznego im. Jana Pawła II w Krakowie oraz członkowie Zespołu projektu pn. **„Innovation transfer in the medical sector from clinics to companies - InTraMed-C2C"** współfinansowanego z Europejskiego Funduszu Rozwoju Regionalnego w ramach Programu dla Europy Środkowej, mają przyjemność zaprosić na warsztaty innowacyjne

Panią Annę Karbowniczek – Prezesa Chemiczno-Farmaceutycznej Spółdzielni Pracy ESPEFA w Krakowie

Celem warsztatów jest integracja wokół innowacyjnej inicjatywy Instytutu Zootechniki w Krakowie. Współpraca przedstawicieli środowiska medycznego (szpitale, kliniki, uczelnie medyczne) z biznesem to niezwykły potencjał dla rozwoju nowatorskiego projektu. Możliwość utworzenia nowych konsorcjów projektowych mających na celu komercjalizację innowacyjnych rozwiązań to obopólna szansa na dynamiczny rozwój tych sektorów.

Spotkanie odbędzie się w:
Sala konferencyjna „C", 6 piętro
Hotel Kossak
Plac Kossaka 1
31-106 Kraków
Termin:
1 marca 2012 r.
Godz. 15.00

Date and venue

The follow up innovation workshops under the InTraMed-C2C Project was held on 1st March 2012 at the conference center of the Kossak Hotel in Krakow (Pl. Kossaka 1). The workshop was attended by twelve representatives of the R&D institution, hospital, business supporting institutions and enterprises.

Subject matter

The workshop was entirely devoted to the project of implementing resveratrol as a innovative diet supplement.

Workshop Participants

The innovation workshop on 1st March 2012 was attended by representatives of the following institutions:

- The John Paul II Hospital in Krakow – organizer of the workshop:
  - **Krzysztof Bederski MD, Deputy Director for Medical Affairs**
  - **Małgorzata Rusin MEng, Head of Information and Telemedicine Technology Team**
  - **Agnieszka Piwowarczyk-Bargieł MA, staff member of the Bureau of International Project**
  - **Amelia Pietryka MA, staff member of the Bureau of International Project**

  Address: ul. Prądnicka 80, 31-202 Kraków

The following representative of business related institution participated in the workshop:

- Board President of the Medical Technology Transfer Center Technology Park Ltd.

  – Kamil Kipiel MA, specialist in Project management, enterprise and commercialization of intellectual property

  Address: ul. Prądnicka 80, 31-202 Kraków

The following representantives from R&D institution:

- National Research Institute of Animal Production – owner of innovative idea, research team:
  - **Marek Pieszka, Associated Professor, Head of Research Team**
  - **Oczkowicz Maria Phd, Member of Research Team**
  - **Bederska-Łojewska Dorota MA, Member of Research Team**

  Address: ul. Sarego 2, 31-047 Kraków

The following representantives from SME:

- Chemistry and Pharmacy Cooperative ESPEFA – potential investor:
  - **Anna Karbowniczek – Chairman of the Board**
  - **Agnieszka Broda Phd – Innovation and Development Manager**
  - **Katarzyna Kitner – Head of Production Department**
  - **Marek Knapik – Chief Accountant**

  Address: ul. J. Lea 208, 30-133 Kraków

Attendence sheet

CENTRAL EUROPE COOPERATING FOR SUCCESS. EUROPEAN UNION EUROPEAN REGIONAL DEVELOPMENT FUND InTraMed C2C

Lista obecności uczestników warsztatów innowacyjnych organizowanych w ramach projektu InTraMed-C2C

Hotel Kossak - 01.03.2012 r.

Nazwisko i imię	Instytucja	Podpis
Pieszka Marek	Instytut Zootechniki – Państwowy Instytut Badawczy	
Oczkowicz Maria	Instytut Zootechniki – Państwowy Instytut Badawczy	
Bederska-Łojewska Dorota	Instytut Zootechniki – Państwowy Instytut Badawczy	
Karbowniczek Anna	Chemiczno-Farmaceutyczna Spółdzielnia Pracy ESPEFA	
Broda Agnieszka	Chemiczno-Farmaceutyczna Spółdzielnia Pracy ESPEFA	
Kitner Katarzyna	Chemiczno-Farmaceutyczna Spółdzielnia Pracy ESPEFA	
Knapik Marek	Chemiczno-Farmaceutyczna Spółdzielnia Pracy ESPEFA	
Kipiel Kamil	Centrum Transferu Technologii Medycznych Sp. z o.o.	
Bederski Krzysztof	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Rusin Małgorzata	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Pietryka Amelia	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Piwowarczyk-Bargieł Agnieszka	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	

Agenda

Workshop programme:

1. 15.00 – Opening
2. 15.05 – Presentation of the participants and signing confidentiality agreements
3. 15.15 – Presentation of the idea and possibilities of cooperation in the InTraMed-C2C Project – Krzysztof Bederski, Deputy Director of the John Paul II Hospital in Krakow
4. 15.30 – Presentation about innovative idea „Stabilized resveratrol molecule and its cardioprotective and anti-diabetic effects" – Dorota Bederska-Łojewska, Member of Reaserch Team, National Research Institute of Animal Production
5. 16.00 – Presentation about company ESPEFA – Anna Karbowniczek, Chairman of the Board, Chemistry and Pharmacy Cooperative ESPEFA
6. 16.30 – Moderated discussion of the participants regarding possibilities of Project implementation – moderated by Kamil Kipiel
7. 17.00 – dinner and talks on possibilities of funding innovative projects
8. 18.30 – Summary and plans for future
9. 18.45 – Closing of the workshop

Minutes

1. Workshop participants were welcomed by Director Krzysztof Bederski and Kamil Kipiel who later moderated the workshop discussion.
2. Each participant presented himself/herself and the institution he/she represented.
3. Director Krzysztof Bederski presented the leading idea of the InTraMed-C2C Project paying special attention to possibilities of supporting the implementation of innovative solutions transferred from the medical sector to SMEs.
4. Dorota Bederska-Łojewska presented the results of the experiments with resveratrol in National Research Institute of Animal Production. Tests with mices showed that resveratrol:
   - protects against obesity;
   - increases physical condition and motor skills;

- prolongs lifespan;
- protects liver, kidney and heart against harmful effects caused by hyperglycemia;
- impedes development of diabetes

5. Anna Karbowniczek presented ESPEFA aiming at its main goals, achievements, plans for future, and possibilities of cooperation in implementation of innovative solutions.
6. During the moderated discussion there were several points at issue:
   - IP rights
   - Financial contribution
   - Final budget
   - Analysis of the output market
   - Costs and method of production
   - Registration of the medicinal product
7. The leading topic of dinner was funding and implementation of innovative solutions. Workshop participants shared their experience in fund procurement from the EU, private investors and state budget for the realization of projects.
8. After dinner workshop participants exchanged their business cards and confirmed their willingness to develop ideas which emerged during the workshop. The Managing Team of the InTraMed-C2C Project declared continuing support for the organization of future workshops.


Partnerzy projektu

Invitation

Kraków, 02.08.2012 r.

ZAPROSZENIE

Dyrekcja Krakowskiego Szpitala Specjalistycznego im. Jana Pawła II w Krakowie oraz członkowie Zespołu projektu pn. **„Innovation transfer in the medical sector from clinics to companies - InTraMed-C2C"** współfinansowanego z Europejskiego Funduszu Rozwoju Regionalnego w ramach Programu dla Europy Środkowej, mają przyjemność zaprosić Państwa na warsztaty innowacyjne.

Celem warsztatów jest prezentacja innowacyjnego narzędzia IT firmy IVES system, które zapewnia możliwość przekazywania obrazów radiologicznych oraz prowadzenia telekonsultacji medycznych.

Spotkanie odbędzie się w:
Sala konferencyjna w budynku Edukatorium, parter
Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie
Ul. Prądnicka 80
31-202 Kraków
Termin:
8 sierpnia 2012 r.
Godz. 12.00

Uprzejmie prosimy o potwierdzenie przybycia do dnia 7 sierpnia 2012 r. drogą telefoniczną pod numerem (12) 614-25-85 lub e-mailową na adres Biura Wspierania Badań i Rozwoju bpm@szpitaljp2.krakow.pl .

Z poważaniem,
Project Manager
"IntraMED - C2C"
lek. med. Krzysztof Bederski
Projekt współfinansowany w ramach
Central Europe Programme

Introduction

The workshop within the InTraMed-C2C project was held in the conference center „Educatorium" of the John Paul II Hospital in Krakow in the presence of 14 representatives of medical sector, business-related institutions and enterprises.

This tailor-made workshop was organized to plan the implementation pathway for an innovative project to exchange radiographic tests between doctors in Malopolska. The idea of the workshop emerged as a result of cooperation between the John Paul II Hospital in Krakow and a young telemedicine company IVES.

The Ives company was founded in 2009. From the very beginning its mission has been to create innovative solutions in the field of medicine. It employs software developers who make every effort to create innovative solutions to answer the needs of physicians and specialists in diagnostic imaging. The company cooperates with the medical community and researchers from technical universities.

The company is known for the innovative way of problem solving, cooperation with researchers and physicians, professional competence in medicine-related IT. The company adjusts its offer to the individual needs of users, and monitors its implementations. In this way, the company is able to conform to the requirements of the most demanding clients who need advanced tools for their work in the field of medicine.

One of the IVES products is an innovative IT platform inVisium providing multiple functions ranging from analysis of radiological images stored in the DICOM standard to teleconsultation combined with audio video transmission. The system is available through a web browser. In this way hospitals are able to reduce system maintenance costs and provide their physicians with access anywhere in the workplace.

In this context the innovation workshop held on 8 August 2012 gathered employees of hospitals in Malopolska who were potentially interested in product testing and implementation.
The following hospitals were represented in the workshop:

- St. Luke Provincial Hospital in Tarnow
- Regional Hospital in Limanowa
- Stefan Zeromski Specialist Hospital in Krakow
- Regional Hospital in Chrzanow
- John Paul II Hospital in Krakow – initiator of the meeting and potential user of the medical platform

Attendance sheet

Lista obecności uczestników warsztatów innowacyjnych organizowanych w ramach projektu InTraMed-C2C

Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie
08.08.2012 r.

Nazwisko i imię	Instytucja	Podpis
Kaczmarczyk Tomasz	Szpital Specjalistyczny im. Stefana Żeromskiego w Krakowie	
~~Kolesiński Marek~~	~~Szpital Specjalistyczny im. Stefana Żeromskiego w Krakowie~~	
Radzięta Marcin	Szpital Powiatowy w Limanowej	
Płoszyca Ireneusz	Szpital Powiatowy w Chrzanowie	
Bochenek Dawid	Szpital Powiatowy w Chrzanowie	
Ściński Wacław	Szpital Wojewódzki im. Świętego Łukasz w Tarnowie	
Flis Mateusz	IVES System	
Kaleta Łukasz	IVES System	
Kipiel Kamil	Centrum Transferu Technologii Medycznych Sp. z o.o.	
Bederski Krzysztof	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Burliga Tomasz	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Rogóż Roman	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	

CENTRAL EUROPE COOPERATING FOR SUCCESS. EUROPEAN UNION EUROPEAN REGIONAL DEVELOPMENT FUND www.intramed-c2c.eu InTraMed C2C

Rusin Małgorzata	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Stachowicz Anna	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	
Piwowarczyk-Bargieł Agnieszka	Krakowski Szpital Specjalistyczny im. Jana Pawła II w Krakowie	

The meeting was moderated by Kamil Kipiel Chairman of the Board at Medical Technology Transfer Center and Technology Park Ltd. (MTTCTP Ltd.).
The MTTCTP Ltd. was an important partner of the workshop because its mission is to help in commercialization of the results of studies carried out in scientific, research and medical institutions, support innovation and cooperate with the industry.

Workshop theme and agenda

The bottom-line idea of the meeting was to integrate around inVisium platform all representatives of healthcare sector (hospitals, clinical departments) who believe in cooperation with partners from the IVES company for further development of the innovative project.

The main goals of the innovation workshop set up by the organizers were as follows:

- Initiation and implementation of interdisciplinary development projects targeted on introducing into hospital practice innovative technologies, products and services, mainly in the field of teleconsultation combined with audio video transmission of data
- Stimulation of cooperation between IVES company and healthcare institutions interested in exchange of radiological images
- Promotion of innovation in hospitals/healthcare institutions
- Lobbying for technological progress in medicine in its broad sense and among representatives of public authorities (mainly the Board of Malopolska State Government)

The Workshop was a mini seminar lasting 5 didactic hours (from 12.00 to 15.45). The meeting was attended by an intellectual property and commercialization expert

whose role was to moderate discussion and provide expert knowledge regarding intellectual property, technology transfer and cooperation between hospitals and enterprises (Kamil Kipiel).

The meeting was also attended by representatives of the InTraMed-C2C Project Management Team at John Paul II Hospital in Krakow who had a presentation on the available forms of support within the project and its successes.

The added value of the workshop was the demonstration of the telemedical potential of the John Paul II Hospital in Krakow i.e. an audio video transmission of bronchoscopy performed in the Department of Thoracic Surgery.

Workshop programme:

a) 12.00 – Welcome address
b) 12.05 – Introducing the participants and presenting the agenda
c) 12.10 – Presentation of the idea and successes of the InTraMed-C2C Project – Krzysztof Bederski Deputy Director for Treatment
d) 12.25 – Presentation of the inVisium medical platform – Mateusz Flis Project manager at IVES company
e) 12.45 – Live transmission of bronchoscopy to see the advantages of novel telemedical solution in Polish hospitals
f) 13.10 – Presentation of technical possibilities of the inVisium platform using audio video data transmission – Mateusz Flis Project manager at IVES company
g) 13.25 – Moderated discussion on possibilities of platform implementation in healthcare institutions
h) 14.30 – Lunch and less formal talks on possibilities of project financing
i) 15.40 – Conclusion and plans for future
j) 15.45 – Closing the workshop

Conclusions – medical platform InVisium

Presentation of the inVisium medical platform met a positive reception among the participants.
It was emphasized that the system is a new form of e-service in the medical market. One of the most important advantages is access via a web browser, which markedly reduces inconveniences in the process of implementation, and facilitates improvements. Users have access to applications without the need for additional software installation, do not rely on suppliers of operational systems and equipment.
In the proposed system physicians have a set of indispensable tools for work with radiological images for instance region of interest (ROI) delineation, taking measurements and defining Hounsfield window. Furthermore, the system provides a possibility of choosing a concrete physician to analyze a given image.
Furthermore, inVisium is equipped with a system functionality that enables teleconsultation of radiological images stored in the DICOM standard. In this way doctors working in various places using one tool can consult selected radiological images. The service facilitates not only transmission of the image with ROI delineation by each user, but also audio video communication between interested

doctors. The exchange of data between doctors generates a set of verified and anonymous medical cases. Then they may be stored in a database accessed by other users with intelligent browsers. The platform provides a possibility of reducing costs and improving the quality of diagnostic imaging in a given healthcare institution.

In future the system may be equipped with a functionality that enables image archiving, in accordance with legal requirements. The project creators intend to apply for the quality certificate ISO 9001 and medical product development certificate.

The most important advantages of the operational system of the inVisium platform (presented by project manager) are as follows:

- Automatic anonimization of new cases
- Browser of cases added by other users
- Addition of descriptions, findings, substances used
- Algorithm suggesting images that are similar with respect to their description or pattern
- Tools for area delineation, measurements, image adjustment
- Teleconsultation of DICOM images with audio video transmission

Technical requirements for the system to function as declared by the company:

- Web browser – no need to install additional software
- Access to the Internet
- PC minimum 2 GB RAM and 1.5 GHz CPU

Hospital representatives attending the meeting pointed out to formal and technical problems related to working with the system on private PCs (the need of having a reference monitor and adequate ports).
An important issue was also the need to protect the platform against hack attacks and computer viruses. The company is aware of the risks and declares that they are equipped properly to protect the system users.
The creators of the solution did not decide to protect it by industrial property rights (patents) because of the intricacies of formal applications in the EU. The system is protected by copyright.
Potential clients emphasized the high speed of image processing using inVisium as compared with the systems used so far.
It remains to be established how to unify telemedical systems available in the hospitals, which would facilitate markedly teleconsultation. It was agreed that common initiative of hospitals in Malopolska is required to incorporate the issue in the strategy of expending EU funds in 2014-2020 in the region.

The IVES Company made an offer to implement the system in the hospital and open five unique user accounts for a license fee 1 500,00 PLN per month. The price can be negotiated for larger orders. The company is flexible and may adjust the system to concrete needs.
Finally, it was stated that the willingness of the hospital management and effective public procurement process are the determinants of successful implementation.

Summing up, the teleinformation tool offered for the medical sector, specifically for diagnostic imaging, may provide a very important link in the treatment process, assisting diagnosticians in disease detection and education of new specialists. Computer scientists are provided with a tool for patient data management. All proposed solutions result in cost reduction related to patent management and education of medical specialists.

It is planned to monitor within the project bilateral meetings (company – hospital) which will be held as a result of participation in the workshop.

Regional Development Agency of Gorenjska
BSC, Business Support Centre Ltd, Kranj

Second innovative workshop, 27th of March 2012, Kranj:

Second innovative workshop of a project InTraMed-C2C in Slovenia

In Slovenia, we organized second innovative workshop on 27th in Institute for Public Health Kranj. It was established after WW2, today it is responsible for medical microbiology and analysis (microbiological and chemical) of food, water and environment. Activities of the Institute are primarily preventive, but very diverse. Beside the mentioned tasks, they are responsible for analysis of noise and agricultural products for entire Gorenjska region. More than half of the employees at the Institute have at least college education. Among them are medical doctors with different specializations, biologists, veterinarians, graduate nurses...

The workshop was attended by 16 employees: director of Institute and different management staff. As before seminar was divided into three thematic sections:

1. **Presentation of the key features innovations and innovation process, whose aim was to clarify and define basic terms and concepts of innovative process.**

Today, innovations are no longer just a hobby, but became a social necessity, which requires a structured approach. In this area we are faced with different concepts and definitions, which are also in professional circles is often misunderstood. So the concept of innovation and innovation process are often **interpreted too broadly**: any novelty is not an innovation; or **too narrow**: not only innovations from technical field are innovations.

Lecturers explained to the participants the difference between the concepts of invention and innovation, and the difference between the process of creating and implementing ideas.

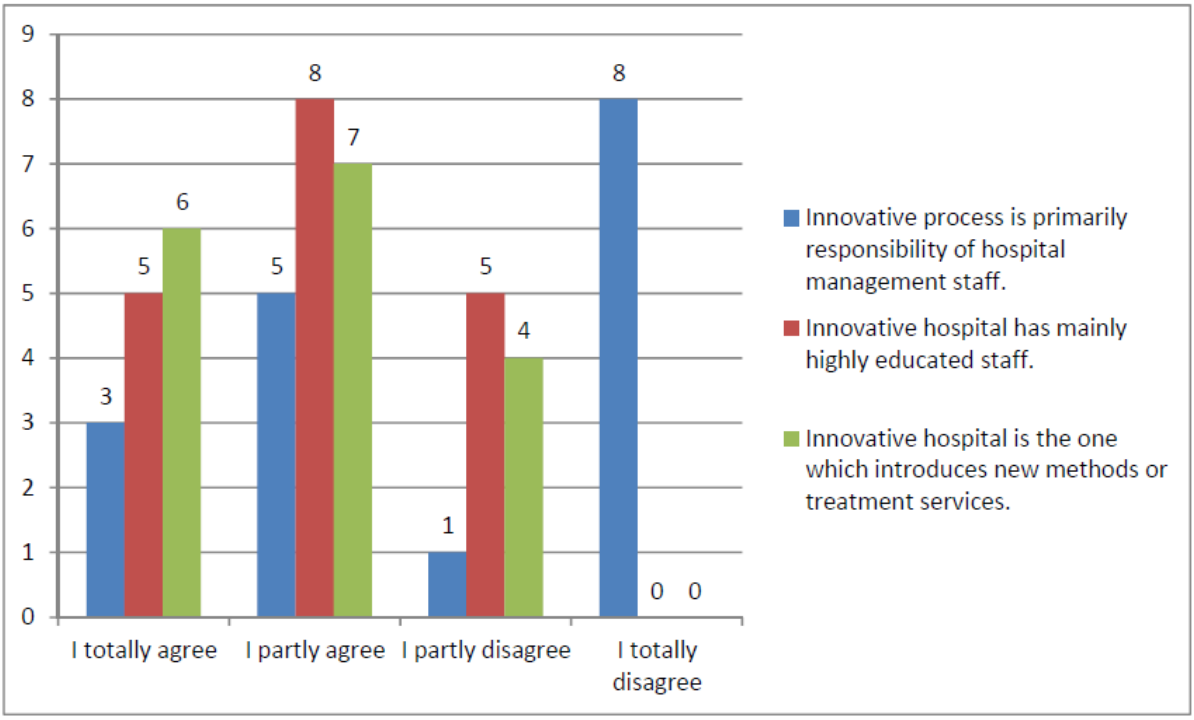
2. **Presentation of the mechanisms, tools and best practices for establishing and maintaining the innovation system.**

The lecturers presented the model of innovation management to the participant of workshop and they explained that the model is seen as a methodology by which we assess whether the management staff, processes and procedures in organization support the innovation process.

3. Implementation of a SWOT analysis to determine the current state of innovation processes.

In the third part of a workshop a short survey of understanding the basic concepts of innovation and to gain insight into the current state of innovation process in their institution was conducted. The results of a survey were presented at the end of the workshop.

The results of most interesting questions of understanding the innovative process and about current state of innovative environment in their institution:



Because the survey was the same as on our first innovative workshop we can make some interesting comparisons of answers or better about stage of innovative culture in two “health” organizations.

At first question – that innovative process is primarily responsibility of hospital managements staff we got rather similar answers in both institution (Hospital Golnik and Institute for Public Health Kranj). Most employees don’t agree with the statement, but there are more employees in Institute for Public Health who totally agrees with the statement.

On second question – innovative hospital has mainly highly educated staff we also get rather similar answers. Most employees don't agree with this statement. In both institutions we got the most answers in the section "I partly agree" and "I partly disagree", which show us that the employees think that education is important for innovative culture but not the only factor.

On third question – innovative hospital is the one which introduces new methods or treatment services, we got most different answers. Employees of Institute for Public Health agree to lesser extent with the statement than the employees of Hospital Golnik. We can understand this as a bigger understanding of innovative process and a little higher level of development of innovative culture in organization.

Participants also learned on the workshop that the innovation process can be divided into **four key stages**:

- beginning of innovation process (generating ideas),
- development of new products or services,
- commercialization or activities for inclusion of the innovation on the market
- market absorption of innovation by users.

On the next workshop will the same people getting to know the initial stages of the innovation process in practice – they will generate the ideas connected with their work. The participants will be able check process of the generation and management ideas by their ideas.

We will have our third innovative workshop in Hospital Jesenice. After that we will be able to do some more comparisons and analysis of answers of all three health institutions.

Third innovative workshop of a project InTraMed-C2C in Slovenia

In Slovenia, we organized the third innovative workshop on 14th of May in General Hospital Jesenice. Hospital Jesenice exists since 1889, but in the meantime it has greatly expanded and changed. Today, they are becoming one of the finest Slovenian general hospitals, recognized in Europe. Their excellence reflects in: professionally, safely handled and satisfied patient, creative, motivated and satisfied employees, an attractive work environment created by the thought of sustainable development.

The hospital has been applying the internationally acclaimed ISO 9001:2008 Quality Management System since 2009, which has enabled them to monitor the success and efficiency of their work on a regular basis. Through monitoring the quality indicators, deviations, unfortunate events and the satisfaction of their internal as well as external clients, they have been taking further steps towards constant improvement.

In 2010 Hospital was awarded with the German TEMOS – Quality in Medical care – worldwide certificate. This was yet another proof that their services have been recognized as safe and of high quality. Through an up-to-date information system their employees can exchange opinions with their colleagues at certified medical institutions worldwide.

Educational seminar was attended by 21 employees. It was divided into three thematic sections:

1. **Presentation of the key features innovations and innovation process, whose aim was to clarify and define basic terms and concepts of innovative process.**

   Today, innovations are no longer just a hobby, but became a social necessity, which requires a structured approach. In this area we are faced with different concepts and definitions, which are also in professional circles is often misunderstood. So the concept of innovation and innovation process are often **interpreted too broadly**: any novelty is not an innovation; or **too narrow**: not only innovations from technical field are innovations.

   Lecturers explained to the participants the difference between the concepts of invention and innovation, and the difference between the process of creating and implementing ideas.

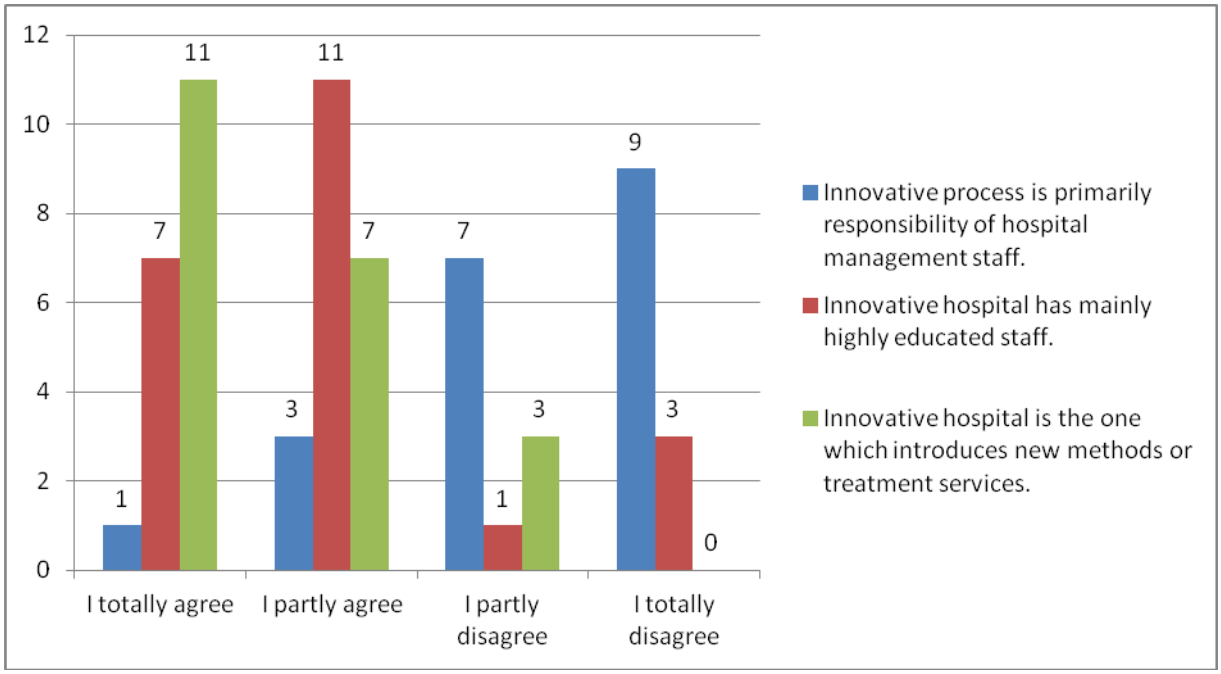
2. **Presentation of the mechanisms, tools and best practices for establishing and maintaining the innovation system.**

   The lecturers presented the model of innovation management to the participant of workshop and they explained that the model is seen as a methodology by which we assess whether the management staff, processes and procedures in organization support the innovation process.

3. **Implementation of a SWOT analysis to determine the current state of innovation processes.**

In the third part of a workshop a short survey of understanding the basic concepts of innovation and to gain insight into the current state of innovation process in their hospital was conducted. The results of a survey were presented at the end of the workshop.

The results of most interesting questions of understanding the innovative process and about current state of innovative environment in their hospital:

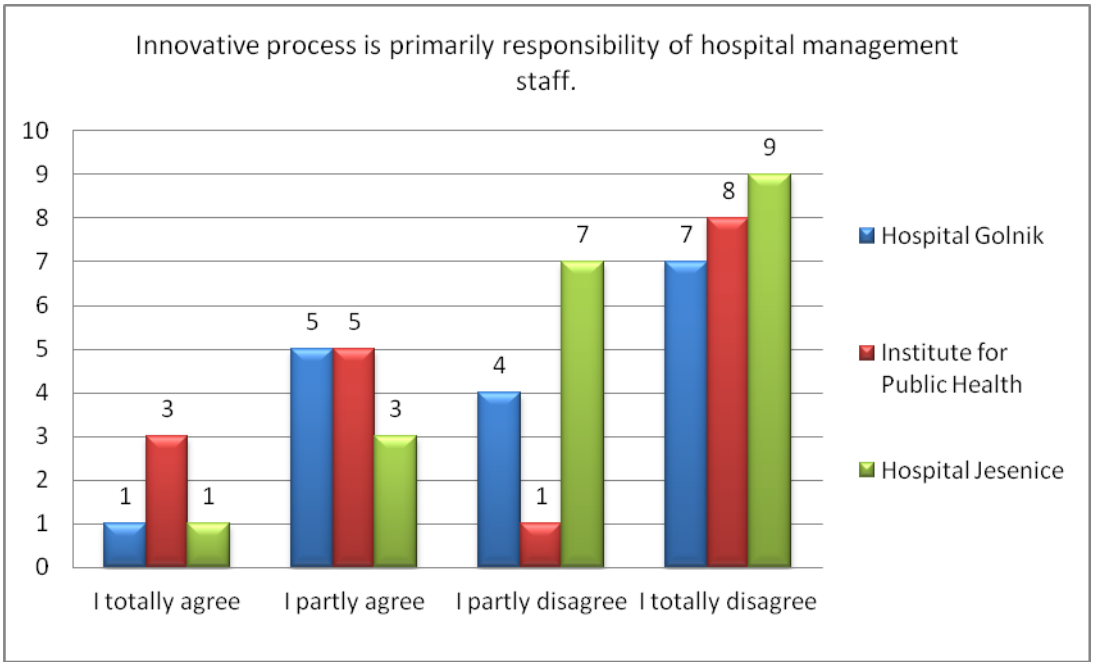


Participants also learned on the workshop that the innovation process can be divided into **four key stages**:

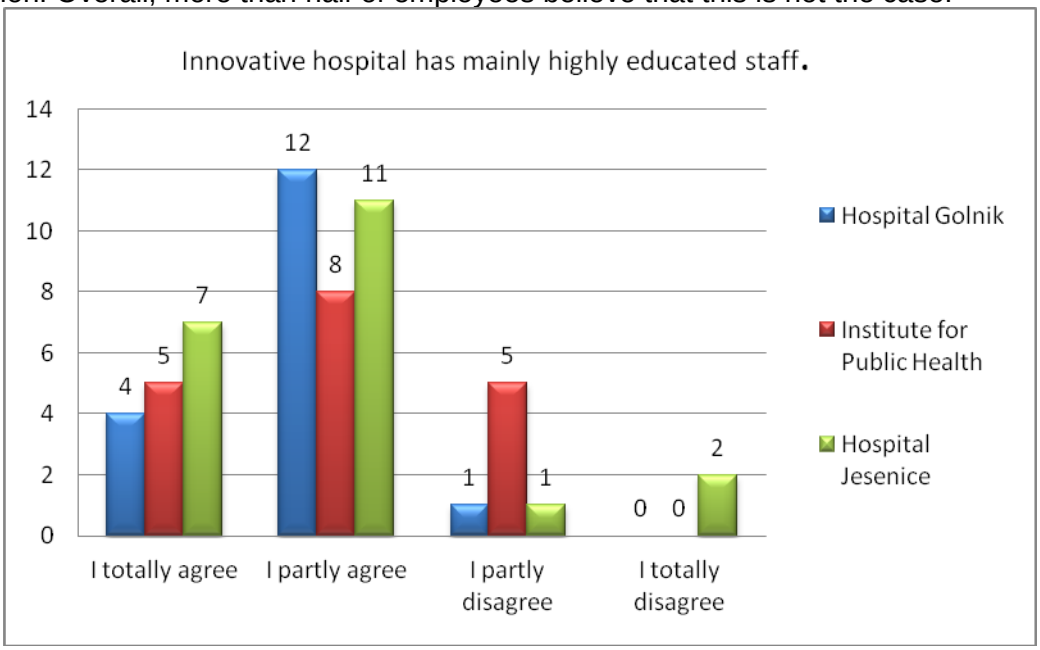
- beginning of innovation process (generating ideas),
- development of new products or services,
- commercialization or activities for inclusion of the innovation on the market
- market absorption of innovation by users.

On the next workshop will the same people getting to know the initial stages of the innovation process in practice – they will generate the ideas connected with their work. Participants will be able check process of the generation and management ideas by their ideas.

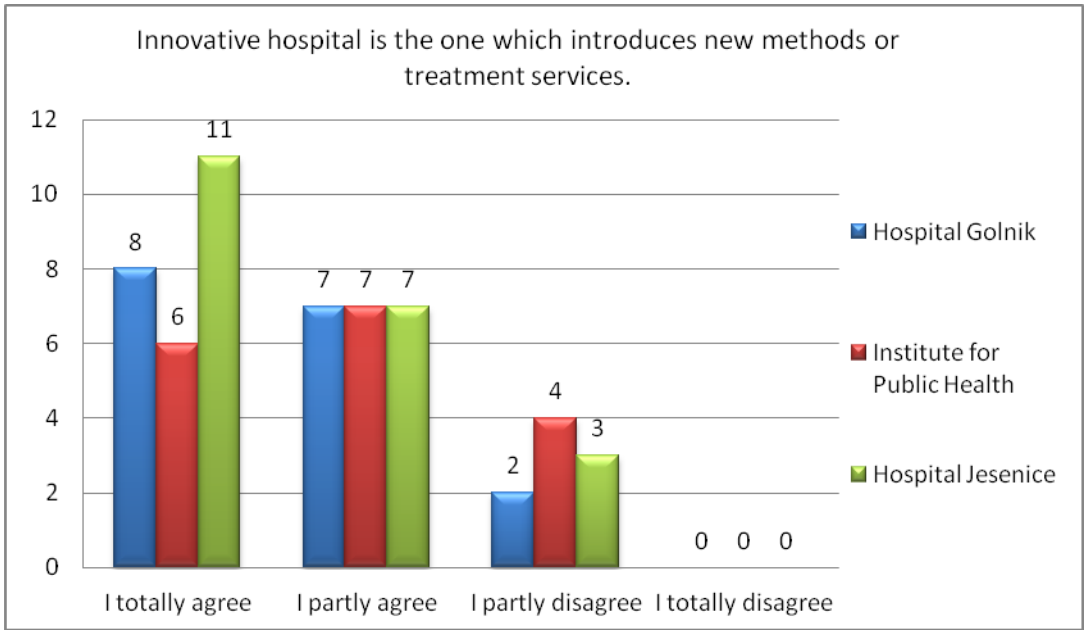
In all three institutions, where we implemented an innovative workshop: Hospital Golnik, Institute for Public Health and Hospital Jesenice, were employees at the beginning of the workshop asked to fill the survey with same questions. We wanted to check the understanding and knowledge of innovation processes and innovation. On this basis, we can now compare the answers of institutions.
Comparison between different institutions:



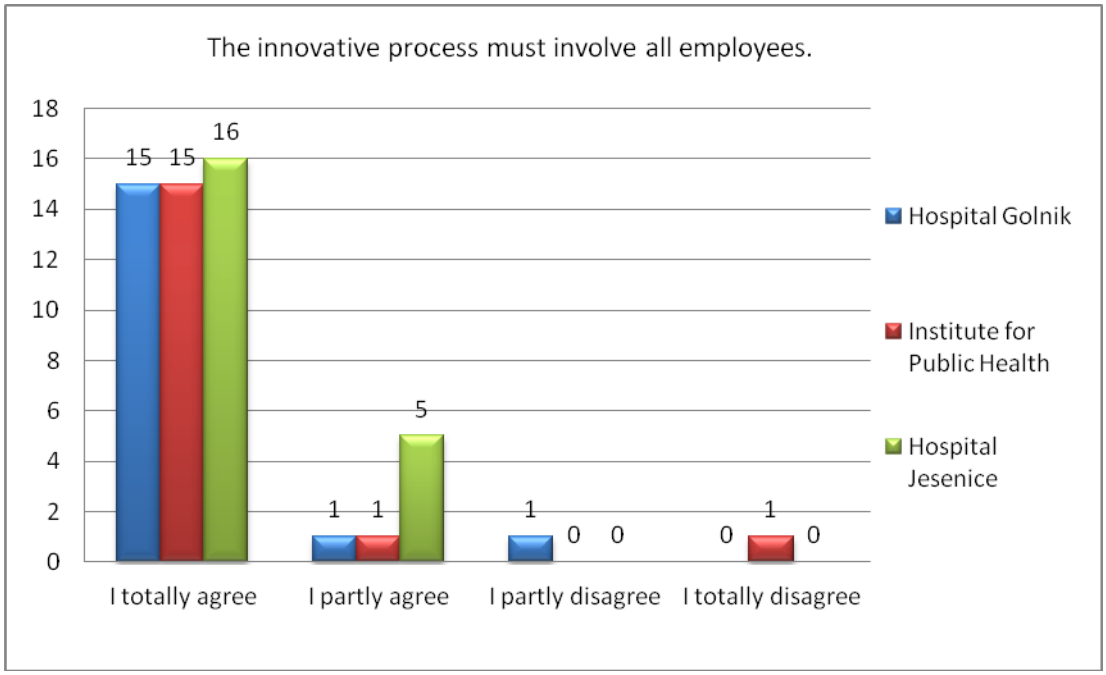
On the question of responsibility for the innovation process all three institutions have fairly similar answers. Most employees do not agree with that statement. This suggests that the employees also feel responsible for innovative process - to influence on it and share their innovative ideas. The biggest deviation was in Institute of Public Health Kranj, where more employees believe that management is primarily responsible for innovations within the institution. Overall, more than half of employees believe that this is not the case.



On the next question more than half of employees of individual institutions believe that education affects the innovation process and innovative ideas. Since the survey was filled by the employees before the workshop, we hope that after the seminar they realized that education level does not affect the innovation process and that all employees can provide ideas for innovative improvements in the field of their work.



In this response we were particularly pleased by the fact that employees do not believe that only those hospitals are innovative which introduces new methods and services. But on the other hand, many participants agree to this fact, which shows limited understanding of the innovation process. We hope that the participant changes their mind during the workshop.
In the survey was one more interesting question (among ten others), which we didn't dedicate attention to.



This question connects to the first. Most of the staff agrees that the innovation process should involve all employees. Yet, on the first question, where we asked them whether they agree that management is primarily responsible for the innovation process, several individuals said that they agree with this.
In the coming months we will organize in every institution follow-up workshops which will be adjusted to the specific organization. We will also begin the process of collecting ideas from employees, which could be incorporated into the project database of innovative ideas.

Budapest University of Technology and Economics
Biomedical Knowledge Centre – PP10:

Innovation Workshops and Follow-up Activities

Electronic Voice-activated Assistant for the Mobility Impaired (eVA)

A Brief Description of the Idea

Óbuda University, John von Neumann Faculty of Informatics makes efforts to equip elderly people's environment with ICT equipment, hereby to improve their living conditions.
All developments in the University are performed by students as degree work, as it happens in developing Voice-activated Assistant.
The starting point was a seriously disabled patient's environment, suffering from sclerosis multiplex. The patient can communicate to her environment only with sound. Her life quality is very limited because she has to ask for assistance to almost everything. This condition has been improved by students with accommodating devices in her environment to voice controlling. Thus the patient can control bed moving mechanism, TV, radio, telephone, room ventilation and can call for nurse.

The idea was realized in a specific location by creating a "breadboard version" and by furnishing a patient's room at the Department of Neurology of Uzsoki Utcai Kórház where a Voice-activated Assistant was developed by students of the university.

1st Innovation Workshop (11-2011, eVA)

Aim of the 1st innovation workshop: identifying the primary location where the idea can be utilized; planning the test and the introduction of the future product.

The workshop took place at Department of Neurology of Uzsoki Utcai Kórház in November 2011. The Hospital considered the development of Óbuda University progressive and designated a place (old gymnastic room) to the experiment – living lab construction – in which Voice-activated Assistant could be studied with patients' assistance. During equipping the selected patient's room Dr. Gábor Jakab, Chief Medical of the hospital department informed us that he could not devote more financial resources except for this room. All patients should be informed only when the product has manufacturer, maintainer and customer service. Although the hospital has pharmaceutical manufacturer support, these companies – for fear of competition – refrain from supporting such a system.
Dr. László Kutor, representative of Óbuda University said: besides students he is the only person who can deal with the equipment on the merits, so he performs the maintanance and repair work of the equipment installed at the one and only patient.
The unanimous view was that manufacturer's capacity should be found for the equipment.

1st Follow-up Workshop (20-02-2012, eVA)

Aim of the 1st follow-up workshop: to find potential SMEs for the manufacture, operation and maintenance of the system.
After finding potential manufacturers we organized a workshop on 20th February 2012. Students who worked on the equipment (to increase reliability) presented the idea to representatives of the small enterprises (Aviatronic Kft., Geocoop Műszeripari Szövetkezet, Hírközlési Mérő és Szolgáltató Kft., Közép-Magyarországi Regionális Innovációs Ügynökség, INNOREG, Hírterv Bt.), then the guests asked the owners of innovations questions. László Kutor and his group willingly answered the questions, but different opinions were expressed regarding the process from the idea to the product. Finally two companies – Aviatronic Kft. and Hírterv Bt. – said yes to participate in the implementation.
Péter Barna, managing director of Aviatronic Kft. asked the university's team to compile a list of materials and devices needed for the development and invited the active attendants to the next workshop to the premises of Aviatronic Kft.

2nd Follow-up Workshop (07-06-2012, eVA)

Aim of the 2nd follow-up workshop: clarifying the selection of potential small manufacturer.
The workshop took place at the site of Aviatronic Kft., in Csillebérc (1121 Budapest, Konkoly Thege út 29-33.) on 7th June 2012. Besides the hosts representatives of BME EMT, Óbuda University and Hírterv Bt. attended the workshop.
After presenting Aviatronic Kft. implementation questions were discussed. All persons presents agreed that Aviatronic had the proper knowledge, experience and tools for manufacturing. The company added two points to the original idea:

- ✓ peripheral controllers should be integrated into one universal tool which can be manufactured profitably;
- ✓ each location should be connected to a remote monitoring system in order to make the equipment reliable and rapidly serviceable.

Those who were present agreed with the suggestion. The university took-on the previously asked bill of materials to present. It is necessary to clarify the proprietary rights of the university concerning the goods coming from the idea.
The next workshop, the third, was scheduled by the participants for early September.

Current Status of the Idea

The potential implementer was chosen. The owner of innovation prepares the documents necessary for further development by the next workshop. The potential implementer thinks over the issues of maintenance and customer service.

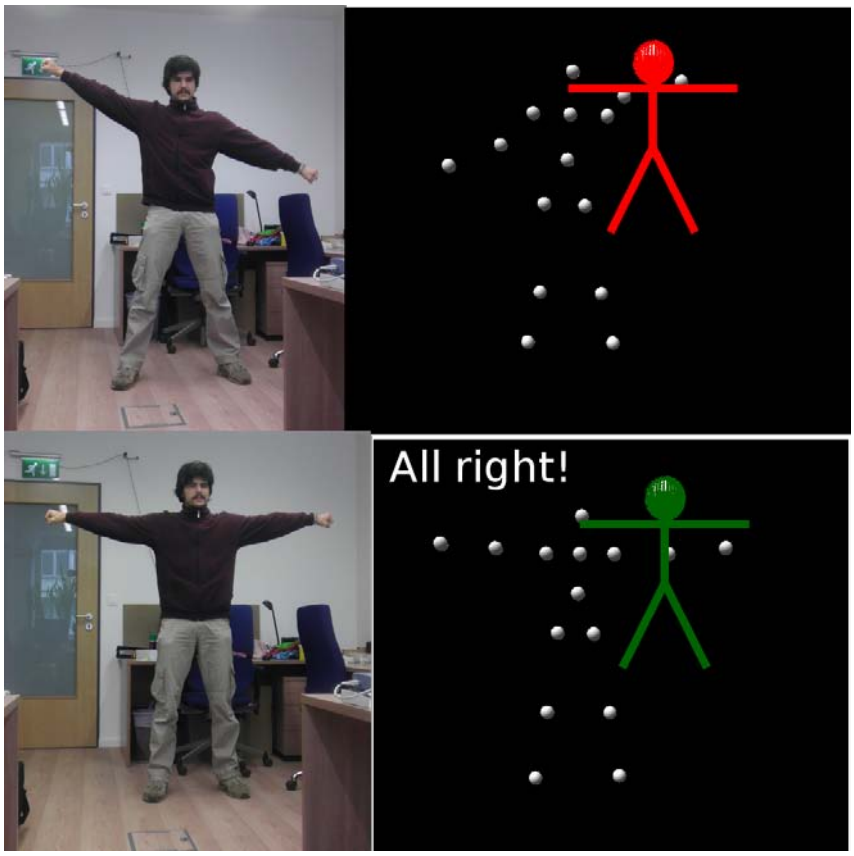
Aviatronic Kft. expressed its willingness to develop, manufacture and maintain the product and to develop the business models as soon as the basic documents for the calculation are available.

LP shows interest in possible foreign implementer.

Gym therapy through the internet (Can 3D Camera or a Simple Webcam Contribute to Physiotherapy?)

A Brief Description of the Idea

Interest in healthy lifestyle has formed countless groups and individual lifestyle components, such as traditional gym exercises on various machines, reviving mass sports, healthy diet.
The idea is: coding the motions to contribute to the jobs of physiotherapists in rehabilitation.
The idea is based on technology of 3D cameras and spread of smart phones.
If the idea were realized the physiotherapy, treatment of patients would be achieved with the assistance but without the non-stop presence of the physiotherapist. This solution can ease the chronic lack of physiotherapists and allow patients to perform exercises at home of their own.



The Innovation Workshop (April 2012)

With the participation of

- **Owner of the idea (BME)**
- **Physiotherapists**
- **Representatives of hospitals**
- **SMEs (applications for smart phones)**
- **R&D (BME, 3D camera assisted softwares)**

Aim of the innovation workshop: charting the area by involving representatives of physiotherapist's society and examining the applicability of new technology.
The workshop focuses on two areas:

1. "Personal trainer's" exercises displayed on smart phone
2. Motion detected by 3D camera and compared with pre-encoded ones.

1. Animation developed by Attreco Zrt. After the really interesting presentation physiotherapists uniformly declared that the application was less suitable for rehabilitation but rather for wider dissemination of movement culture.
2. Developers of BME EMT presented a 3D camera application which demonstrated a system to be suitable for identification of the movement -- in case 3D coordinates of body parts had been previously recorded. This solution was found to be more suitable for physiotherapy. E. g. progression of healing during the rehabilitation of a broken limb can be tracked.

1st Follow-up Workshop (June 2012)

With the participation of (in addition to the participants of the innovation workshop)

- ❑ **+ Representatives of hospitals**
- ❑ **+ Gait Lab of BME**
- ❑ **+ Ergonomics and Psychology Lab of BM**

Aim of the 1st follow-up workshop: we were aware of the possibilities by the time we arranged this follow-up workshop. The rehabilitation specialists and physiotherapists got acquainted with new applications that were intended to demonstrate the possible technologies and techniques with:

- ✓ disabled children's motion analysis
- ✓ motion analysis at workplace
- ✓ sample application on the web (Virtual Trainer – with ASUS Xtion PRO)

After having heard the presentation, the view was the following:
1. Technology is available for supporting therapeutic and rehabilitative physiotherapy.
2. Application is available to map movements and gestures into data level– to build movement database.
3. Physiotherapists did not determine the purpose of the application.
The attendants found that developing a sample application – to avoid postural problems – would have been appropriate during which practice and theory of 3D camera technology could be developed.

2nd Follow-up Workshop (October 2012)

The workshop focused on a single area:
Preparation of **a pilot project in the area of medical rehabilitation**
the physiotherapists need **to choose a specific area** (e. g. elbow rehabilitation) **to test the idea in practice.**
The staff of BME EMT was asked to examine **options of software implementation.**

Current Status of the Idea

The governing body found that the idea could be used at the area of medical rehabilitation instead of using the smart phone. Therefore the governing body asked the physiotherapists to choose a specific area (e. g. elbow rehabilitation) to test the idea in practice. However the staff of BME EMT was asked to examine options of software implementation. After possessing the specific area and the development plan searching for a contractor could be possible.

Preparatory work should be continued in the János hospital or at medical director Zsuzsanna Komlódi in the hospital of Harkány defining the pilot program that is intended to prove the applicability of the solution.

Air Mattress Usage in the Health Care

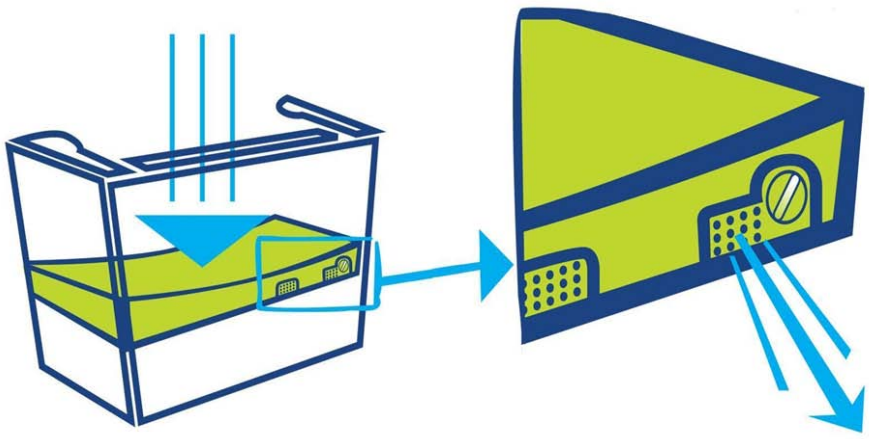
Description of the Idea

In order to gather innovative ideas we contacted the Central Hungary Regional Innovation Agency (INNOREG). The agency invited us to a meeting where the medical applicability of a special air mattress was suggested. We included this innovation in the InTraMED-C2C project under the name of “Air Mattress”.

Conditions of sleeping widely influence people’s rest – in addition – health. Sleep position, the proper posture do not get enough attention. Sleep therapists called our attention to this. Proper sleep position depends on our bed. If you want to develop a proper sleeping place at home, you can choose from beds with great variety of mattresses. In case you choose a single bed there is no problem, because you can buy a mattress suitable for your own body weight, body composition, so comfortable lying position can be guaranteed. However, there is usually a double bed in the homes of married couples. In this case -- because of the different body weights or body compositions -- the interest of either of them is compromised: the selected mattress is not optimal for her or him.

Elasticity of the Air Mattress can be adjusted to the weight of the human body without shearing. Air Mattress consists of a double valve perfusion system and an airtight canvas cover. The amount of air can be set. If there is a load on the Mattress the extra air is vented and due to the polyurethane foam inside the Mattress retains its elasticity. When the load stops, the person gets up of the bed – the air flows back to the Mattress through a non-return valve (see figure below).

Mattress with split sections (enabling different settings to different body zones) can be used in case of patient’s comfort is particularly important (spinal diseases, injuries etc.).



1st Innovation Workshop (01-03-2012)

Aim of the innovation workshop: collecting innovations in health subjects via INNOREG cluster.

After introducing KOMPOZITOR Kft. InTraMED-C2C project was introduced at a – basically non-medical – workshop of INNOREG on 1 March 2012. The representative of Global Innovation Kft. approached that of InTraMED-C2C with the proposal that the use of their patented Air Mattress in health care should be examined. Air Mattress was originally developed for furniture purposes. InTraMED-C2C project added the idea to the innovations to be supported and desided to organize a separate workshop.

1st Follow-up Workshop (18-06-2012)

Aim of the 1st follow-up workshop: examining the applicability in a hospital involving professionals.

BME EMT organized a workshop on 18 June 2012. They invited hospital professionals as well as end users of similar products.

A very small number of hospitals were represented, but those who attended gave very useful advises to the owner of innovation.

A representative of sleep diagnostics explained the importantance of the comfortable bed. It is essential for them to create an objective opinion about the patient.

Everyone agreed that they would present the mattress to experts of a hospital and the next meeting (the next follow-up workshop) would be arranged there.

2nd Follow-up Workshop (July 2012)

This meeting was held at Nyírő Gyula hospital in Budapest with the participation of

- **+ hospital-care professionals and decision makers**
- **owner of the innovation**

The hospital application will be tested involving the Air Mattress developer offered mattresses for testing.

Current Status of the Idea

We plan workshops at others hospitals in the region (CHR) where the hospital application will be tested involving the hospital-care professionals and decision makers (possible further mattresses for testing).

Dexterity Meter Usage (Nine Hole Peg Tester)

A Brief Description of the Idea

The collective of Budapest University of Technology and Economics, Department of Measurement and Information Systems (BME MIT) developed a dexterity meter (Nine Hole Peg Tester) for registration the nervous system effects and the rehabilitation of patients suffering from stroke. The tester has nine holes in which pegs must be placed – optionally in pre-programmed sequence – while the machine measures the speed of activity.
The dexterity meter was tested in two hospitals (departments of neurology) in stroke patients and was found to be suitable for both therapeutic and diagnostic purposes.
The workshop is intended to examine the applicability of the device for any other purpose – in any other field.

1st Innovation Workshop (June 2012)

With the participation of

- **Owner of the idea (BME MIT)**
- **Representatives of hospitals**
- **Experts from Rehabilitation centers**
- **Staff members of Speech Testing National Professional Centre**
- **Therapists**

Aim of the workshop: examining the applicability of the device developed by BME MIT in public health and in special education of handicapped children. We invited to the workshop not only health workers but also staff members of Speech Testing National Professional Centre in order to examine the applicability of the device in case of children with developmental problems.

Inviting potential implementers to the discussion was not advisable since the identification of the scope had not done yet.
The neurologists and special education teachers present agreed that the device was very useful, and all of them – with more or less modifications – could benifit from it in their work.

Current Status of the Idea

In its current state the device is not suitable for children. The ergonomics need to be redesigned to allow children to handle the device. We plan the follow-up workshop by early autumn at which the pre-school applications also will be analyzed.

LP showes interest in possible foreign implementer.

University of Debrecen
Knowledge & Technology Transfer Office

Follow-up innovation workshop organized by the University of Debrecen
on the 6th March, 2013

Background:

The University of Debrecen (UD) has close cooperation with Gedeon Richter Plc. for many years which is one of the largest pharmaceutical companies of Hungary. The company offers scholarship opportunity for the students of the UD in every year and provides support for the most talented ones mainly in the field of drug development. In addition to that the company releases tender application opportunity in the field of drug development for the researcher as well on a yearly base. This is a great opportunity for the researchers to obtain support for the further development of the ongoing R&D projects.

In order to find possibilities for cooperation and further development of innovative ideas the Gedeon Richter Plc. and the University of Debrecen review the most valuable R&D&I projects of the university on a regular basis. After selecting the most relevant R&D&I projects which are in the interest of the company, UD organizes a so called scientific workshop where the researchers could present them projects to the representatives of the Plc.

After discussing with the management of the Office for Innovation and Tender Application of the Gedeon Richter Plc. and providing them the so called *'technology portfolio'* of the UD, the topics of the Follow-up Innovation Workshop were selected. We fixed the date (6th of March, 2013) of the workshop with the company and the researchers as well.
We requested the idea/project keeper researchers to prepare a presentation about them project containing the following main tasks:

- introduction of the technology
- possible areas of utilization
- development phase of the technology
- IP issues
- business opportunities
- resource claims
- next steps
- summary

We had the following expectations from the workshop:

- fruitful discussion on the technologies and ideas of the researchers
- launch long distance cooperation
- useful experiences which can help by organizing further workshops

Participant list:

Tamás Pázmány, Gedeon Richter Plc.
András Czurkó, Gedeon Richter Plc.
István Greiner, Gedeon Richter Plc.
Béla Kiss, Gedeon Richter Plc.
Tamás Kitka, Gedeon Richter Plc.
György Lévay, Gedeon Richter Plc.
József Nagy, Gedeon Richter Plc.
Péter Dezső, Gedeon Richter Plc.
László Mátyus, rector's commissioner for innovation affairs, University of Debrecen
János Szöllősi, vice president for scientific affairs of UD MHSC
Ferenc Debreczeni, head of Tender Application and Innovation Office of UD
György Panyi, researcher, UD MHSC, Department of Biophysics and Cell biology
Éva Rajnavölgyi, researcher, UD MHSC, Department of Immunology
Miklós Fári, researcher, UD CAAES, Department of Plant Biotechnology
László Imre, researcher, UD MHSC, Department of Biophysics and Cell Biology
László Somsák, researcher, UD MHSC, Institute of Chemistry
*Péter Bay,*researcher, UD MHSC, Department of Medical Chemistry
Miklós Vecsernyés, researcher, UD MHSC, Department of Pharmaceutical Technology
László Simon, researcher, UD MHSC, Department of Biophysics and Cell biology
József Tőzsér, researcher, UD MHSC, Department of Biochemistry and Molecular Biology

Adrienne Csutak, researcher, UD MHSC, Department of Ophthalmology
Éva Csősz, researcher, UD MHSC, Department of Biochemistry and Molecular Biology
Tamás Bene, legal advisor, UD TTO
Klára Bartha, innovation manager, UD TTO
Adrienn Jenei, project manager, UD TTO
Nóra Pattendi, project assistent, UD PMO

UD = University of Debrecen
UD TTO = University of Debrecen Knowledge and Technology Transfer Office
UD PMO = University of Debrecen Project Management Office
UD MHSC = University of Debrecen Medical and Health Science Center
UD CAHS = University of Debrecen Centre of Arts, Humanities and Sciences
UD CAAES = Centre for Agricultural and Applied Economic Sciences

Agenda:

10.15 – 10.20	*Welcome: Dr. László Mátyus, rector's commissioner for innovation affairs*
10.20 – 10.35	**György Panyi** Membrane potential oscillations in the immunological synapse: a new option in the control of cellular immune responses
10.35 – 10.50	**Éva Rajnavölgyi** Investigation of the immunogenicity of proteins for human therapeutic use
10.50 – 11.05	**Miklós Fári** Optimization of the production of plant bioactive compounds in fito-bioreactors for the production of active ingredients
11.05 – 11.20	**László Somsák** Glycogen phosphorylase inhibiting glucose derivatives as antidiabetic agents
11.20 – 11.35	**László Imre** The quantitative in situ measurement of histone-DNA interaction
11.35 – 11.50	**Miklós Vecsernyés** The effect of pharmaceutical excipients on absorption processes
11.50 – 12.05	**László Simon** Drug combination for obese individuals to enhance their involvement in sport activities
12.05 – 12.50	**József Tőzsér** Use of urokinase type plasminogen activator inhibitors for the treatment of corneal disorders
	Adrienne Csutak Biotechnological application of proteases in the preparation of protein therapeutics
	Éva Csősz Proteomics Core Facility
12.50 – 13.50	*Closure, reception*
13.50 – 14.30	Visit of the Laboratory of Proteomics Core Facility

Minutes:

Dr. László Mátyus (rector's commissioner for innovation affairs of UD) welcomed the participants and expressed that this cooperation between the Gedeaon Richter Plc. and UD is very important for the university and hopefully the company can find some project for joint development. He wished a successful workshop and called for the first presentation.

After the short welcome the researchers presented them technologies one by one. After each presentation there were a short discussion (questions and answers session) between the technology keeper researcher and the representatives of the company.

After the presentations the representatives of the company expressed that the presented technologies were interesting for them, they need a few time to overview the technologies and reflect on them.

In the lunch break there has been opportunity for face to face discussions between the researchers and the company representatives on the presented technologies and on further cooperation.

After lunch we offered a laboratory visit program for the representatives of the company. One of the researchers introduced the Laboratory of Proteomics Core Facility for those who were interested at the Theoretical Building of the Medical and Health Science Center.

We can assume that the workshop was successful and interesting discussions have been launched. We are waiting for the feedbacks of the company.

Medical Valley EMN e.V. - PP12:

1. IT based health management in trans-sector care of spine patients

On January 26, 2012: Medical Valley met with Dr. Poimann and Mr. Kivikas exchanging views for an IT based health management in trans-sector care of spine patients. It was agreed that Mr. Kivikas will be the project manager. An innovation workshop **with Mr. Kivikas on held on February 27, 2012.** At this workshop the general project steps have been discussed and a joint understanding of a possible project developed. An initial project outline was discussed. In several follow-up meetings and phone conferences the project was further developed. It was decided to apply for public funding for the initial startup of the project.

2. Online based modern wound treatment for diabetic foot syndrome

The diabetic foot syndrome results directly from diabetes mellitus. The most serious foot complications in diabetes are:

- Diabetic foot ulceration. It occurs in 15% of all patients with diabetes and precedes 84% of all diabetes-related lower leg amputations.
- Diabetic foot infections
- Neuropathic osteoarthropathy of the foot

In the care process of patients with diabetic foot syndrome physicians from different backgrounds have to be involved as well as nursing staff of different nursing services. The efficient coordination from diagnosis to treatment and care is difficult in this special disease pattern as so many different technical disciplines are involved. Dr. med Günter Kraus from group practice Dr. Kraus – Dr. Martini – Dr. Högen together with other physicians from the "Bavarian Foot Net e.V." have thought about an efficient online based modern wound treatment support system where all involved physicians and care staff have access in real time to all patient related information in order to plan and execute the treatment of the diabetic foot syndrome better and faster. The whole process will be fastened through the implementation of per patient database where all information on past treatment, latest pictures of the wound etc. will be displayed in real time. Data privacy protection will be secured. Each physician has just access over a secured and stable connection to the data of its own patient. As the system is online based a harmonization with the different IT systems of each practice is not necessary. The access is planned over an app.

Such an online based support system for treatment of diabetic foot syndrome is not yet implemented. It is a novelty. The aim is to implement a prototype and test it in a clearly defined physicians network. So far the testing is planned in Upper Franconia and Munich.

The initial phone contact took place with Dr. Kraus on June 29, 2012. The idea was presented in general and a meeting was initiated to exchange views on the idea. The first innovation workshop ***with Dr. Kraus was held on July 3, 2012.*** The idea was presented in detail and discussion of the further proceeding started. Dr. Kraus mentioned that he already has two companies (SMEs) that can be involved in the development of the online based support system. Dr. Kraus was not interested in a dedicated innovation workshop as InTraMed-C2C normally starts with in its process. He wanted to have it clarified in bi- or trilateral discussions with the already existing companies. Medical Valley EMN is associated partner that supports the consortium after request. In the first step Medical Valley EMN was asked to check the willingness of several financers of projects to provide co-financing for the development of this system and the testing. Dr. Kraus represents a consortium of physicians and clinicians active in the treatment of diabetic foot syndrome.
In several phone discussions and follow-up meetings with Dr. Kraus the project was further developed and an application for support from the Bavarian Free State was prepared. Medical Valley EMN e.V. supported Dr. Kraus and the project team during this phase.

3. VMobil - Electronic patient chart "Mobile Visite"

Advanova GmbH has developed an electronic patient chart that replaces the state-of-the-art patient chart in paper form (VMobile). VMobile's unique features are the consistent focus on ergonomics, availability, multi-user synchronization online-/offline and the integration into the existing system in the hospital. The software interface of VMobile is also specifically designed for mobile use with tablet computers. The system is already test implemented in some clinics across Germany. An i**nitial meeting took place on January 9, 2012.** Mr. Wendel introduced the InTraMed-C2C project. Mr. Bleisinger introduced the idea for improvement of V-Mobil that came out of University Hospital Erlangen. It was decided that the idea should be followed. It was agreed not to include other companies in the research and development. All the work will be done by the Advanova GmbH. An investor/financer is needed. **A workshop was conducted on January 20, 2012.** A workshop under the moderation of Medical Valley with Dr. Pinkwart from state-owned ITZB and Mr. Bleisinger was arranged. The workshop took place at the "Haus der Forschung" in Nuremberg. At the end of the meeting Dr. Pinkwart announced public support and asked Mr. Bleisinger to apply for funding. The public support was accepted in June 2012 and the project started.

Several other ideas from Medical Valley area have been followed, evaluated, discussed (in meetings and phone conferences). The status of ideas is still in an early stage. The ideas will be further proceeded in the following months, also after project closure.