TTN – WP3

Methods for measuring TT activities

CERN, Meeting
17/06/08

Outline

- TTN WP3 Hamburg meeting
- KPI's – 2 lists to merge (***work in progress***)
- WP3 schedule - next steps

TTN WP3 meeting – 13/05/2008, Hamburg

Attendees

- **DESY (DE):** Katharina Henjes-Kunst, Karsten Wurr
- **CNRS/IN2P3 (FR):** Marcel Soberman, Pascal Dargent
- **EPFL (CH):** Gabriel Clerc
- **CERN (CH):** Jean-Marie Le Goff, Emir Sirage

Outcome

- Focus on **Astrophysics, Nuclear & Particle Physics research community**
- Preliminary examination of European and US questionnaires (**ASTP, AUTM, Proton, SwiTT, EIROforum surveys**)
- Proposition to focus on three matters to define KPI's, in a first phase:
  - **IP management; Collaborative & Contract Research (incl. S&C); Enterprise creation**
- Definition of WP3 schedule – next steps

Questionnaire comparison – work in progress (1/2)

Headlines	TTTF delverable	ASTP	SWITT	AUTM	PROTON	TT_EIFORUM
		Association of European Science and Technology Transfer Professionals - 2006	SwissTechnology Transfer association Survey 2006	Association of University Technology Managers (US) - 2006	Proton European survey - 2005 (EC project)	EIRO Forum
Level of maturity of an MS						
	Existence of an IP and industrial relationship charter (with sublevels)					
	Existence of a KTO	Is your office responsible for some or all of the patenting, licensing, or other knowledge transfer activities of the following institutions				
		How many employees				
		Who has first rights to the intellectual property rights created at your institution (government, institutions,				
		Which of the following knowledge transfer services are provided by your office?				
	Assessing and sharing IP profits with inventors and research units					
	Staff incentive policy					
	Capability of protecting IP against legal attacks					
	Existence of IP-TT reviews for each project					
IP management						
	# of patents in stock, age and status	How many nvention disclosures and patenting this year?				
	# priority patents, licensed patents (= active patents) and corresponding direct income and royalties (cumulative and per year)	How many new patent applications (priority filings) did you file for your institution?				
		How many technically unique patents were granted to your institution?				
		How many USPTO patents were granted to your institution?				
	# patent selling and corresponding income	How many licenses (include assignments) or option agreements were made between your institution and companies?				
	# licenses (patents, software, know how) and corresponding income	What was the total amount of license income earned by your institution from its intellectual property (patents, software, material transfer agreements, confidentiality agreements, etc)?				
		Approximately what percentage of this license income was from patents?				
		Approximately what percentage of your institution's active patent portfolio has ever been licensed?				

Questionnaire comparison – work in progress (2/2)

Category	IN2P3 proposal for TTTF	ASTP	SVITT	AUTM	PROTON	TT_EIFORUM
Research contracts						
	# CR (collaborative research) conventions with correct IPR contents, corresponding public and private funds	How many research and development agreements were made between your institution and companies?				
	companies successful in PP RFP (calls) after CR or using MS licenses - by analysis of RFP results-					
	derivative products (how to do: applications of basic research, large scale sales, other products?)					
	subcontracting (?)					
	if exists, IP and commercial income resulting from these CR					
Enterprise creation						
	# creations per year in PP domain and in other domains	How many start-ups were formed in 2006?				
	How many of your licenses and option agreements were granted to How many of these licenses and option agreements were granted to Start-ups turnover...	How many of your licenses and option agreements were granted to How many of these licenses and option agreements were granted to Start-ups				
	cumulative # new jobs creation					
	innovation or start-ups coaching networks (?)					
Services						
	# of conventions and corresponding amount for each category:					
	Consulting, studies, expertises					
	Beam hours					
	Dosimetry					
Industry funding						
	Industry funding (foundations, conventions sponsoring..)	Approximately what percentage of your institution's total research expenditures was funded by private companies?				
	National funding dedicated for PP academic and industry joint actions					

List 1 – work in progress (1/3)

Suggested KPI's - defined scope (**IP Management, Collaborative & Contract Research and Enterprise creation**)

• ***For all KPI's, the idea is to do an assessment during the period from [2007 until date];***

IP MANAGEMENT		
TT Perspective	**Suggested Key Performance Indicator**	**Rationale**
P1 – Identification and protection of Intellectual Property arising from Astrophysics, Nuclear & Particle Physics research groups.	**KPI-1: Number of Invention disclosures** **KPI-2: Number of new technologies assessed for protection** **KPI-3: Number of new IP protected[1]** **KPI-4: Number of High-Risk IP protected**	Measures the number of new technologies potentially subject to future transfer and the efforts done to protect IP in the Physics field. Measures the High-Risk IP decisions with the only objective of recognizing the ownership, inventiveness, novelty and strong publication of core fundamental research from the Physics field.
COLLABORATIVE & CONTRACT RESEARCH (INCLUDING SERVICES/CONSULTANCY)		
P2 – Promotion and fostering of collaborative & contract research with financial participation of European industry and Institutes&Universities to Astrophysics, Nuclear & Particle Physics research groups.	**KPI-5: Number of collaborative & contract research – Completed and active** **KPI-6: Amount of funding triggered for collaborative research** **KPI-7: Amount of funding triggered for contract research**	Measures the collaboration activity and the investment done by the European industry and Institutes&Universities for projects in the Physics field.

[1] Including Patent applications, Trade Marks, copyrights

List 1 – work in progress (2/3)

TT Perspective	Suggested Key Performance Indicator	Rationale
P3·→Identification· of· commercial· potential· in· technologies·arising·from·Astrophysics,·Nuclear·&·Particle·Physics·research·groups¤	KPI-8:·Number·of·market·assessments¶ performed;¶ KPI-9:·Number·of·license·deals·closed·(R&D,¶ exclusive,·non-exclusive,·options);¶ KPI-10:·Licenses·related·income·with:¶ • → associated·patent·&·know-how·services/consulting;¶ • → just·associated·know-how·services/consulting;¶ KPI-11:·Number·of·collaborative·&·contract·research·with·European·industry·(includes·Switzerland·&·Turkey)·and·Institutes&Universities.¶ ¶ KPI-12:·Number·of·collaborative·&·contract·research·outside·European·industry·and·	Measures·the·positive·correlation·between·market·assessments·and·successful·transfer·¶ ¶ ¶ ¶ Indicates·the·number·of·successful·agreements·and·hence·the·volume·of·successful·TT¶ ¶ Indicates·the·TT·inter-relation·in·and·outside·Europe·within·the·TT·Network·members.·¤

List 1 – work in progress (3/3)

TT Perspective	Suggested Key Performance Indicator	Rationale
ENTERPRISE·CREATION¤		
P4· –· Start-up· creation· arising· from· Astrophysics,· Nuclear·&·Particle·Physics·research·groups.¤	KPI-13:·Number·and·types·of·start-ups;¶ ¶ KPI-14:·Number·and·types·of· products/services·in·the·market;¶ (*TT·Network·members·must·classify·the·meaning· of·products/services*)¶ ¶ ¶ KPI-15:·Size·of·the·start-up·("financial·size")· and·the·number·of·employees;¶ ¤	Indicates·the·results·of· entrepreneurship·success·resulting· from·the·Physics·field.·¶ ¶ Indicates·the·successful·benefits·of· Physics·research·and·entrepreneurial· activities·to·the·society·(B2B·and· B2C)¶ ¶ Indicates·the·start-ups·growth· scenario·and·indirectly·indicates·how· many·jobs·are·being·created.¤

WP3 schedule - next steps

17th June, 2008

- Following actions:
  - Metrics/KPIndicators identification, presentation
  - Questionnaire headlines

30th October, 2008

- **Metrics/KPIndicators & Questionnaire validation** will be done at Workshop with the participation of all TT network members

March, 2009

- **Survey all PROs** participating into a Particle/Astro/Nuclear Physics programme (list provided by TT network contacts)

December, 2009

- Evaluation of survey results & final report