



Intellectual Capital for Communities in the Knowledge Economy Nations, Regions, Cities and Emerging Communities



WORLD BANK INSTITUTE
Promoting knowledge and learning for a better world

World Conference on Intellectual Capital for Communities
- Fourth Edition -



Managing knowledge in the context of mergers acquisitions.

The case of **RIO TINTO ALCAN**

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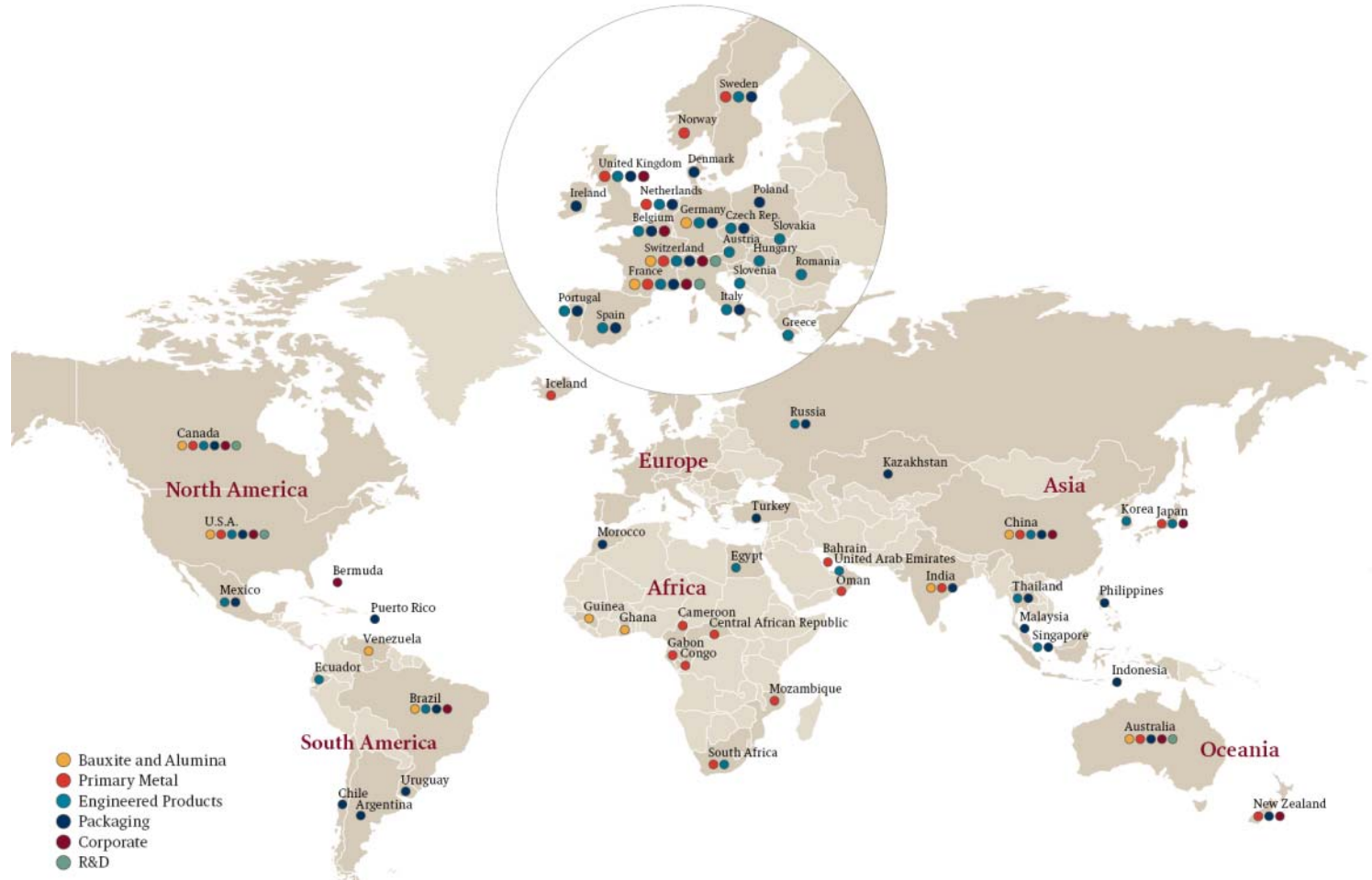
Rio Tinto Alcan Engineered Products

World Conference on Intellectual Capital for Communities
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Rio Tinto Alcan's global presence



Rio Tinto Alcan

Four Business Groups

Number 1 in aluminum, based on current production

World's second largest supplier of aluminum aerospace products ; Number 1 in Europe

Europe's number 1 supplier of large extrusions

Recognized worldwide for its commitment to environment, health, safety, local communities and sustainable development

BAUXITE AND ALUMINA



Over 6,000 employees in 10 countries

PRIMARY METAL



19,400 employees in 21 countries and regions

ENGINEERED PRODUCTS*



15,000 employees in 31 countries and regions

PACKAGING*



31,000 employees in 31 countries and regions

Engineered products a platform for growth

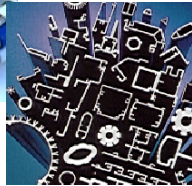
Aerospace, Transport & Industry



Composites



Cable



Extruded Products



Speciality Sheet



Automotive
Structures

7 Business Units (B.U)

1 Research center / 2 labs

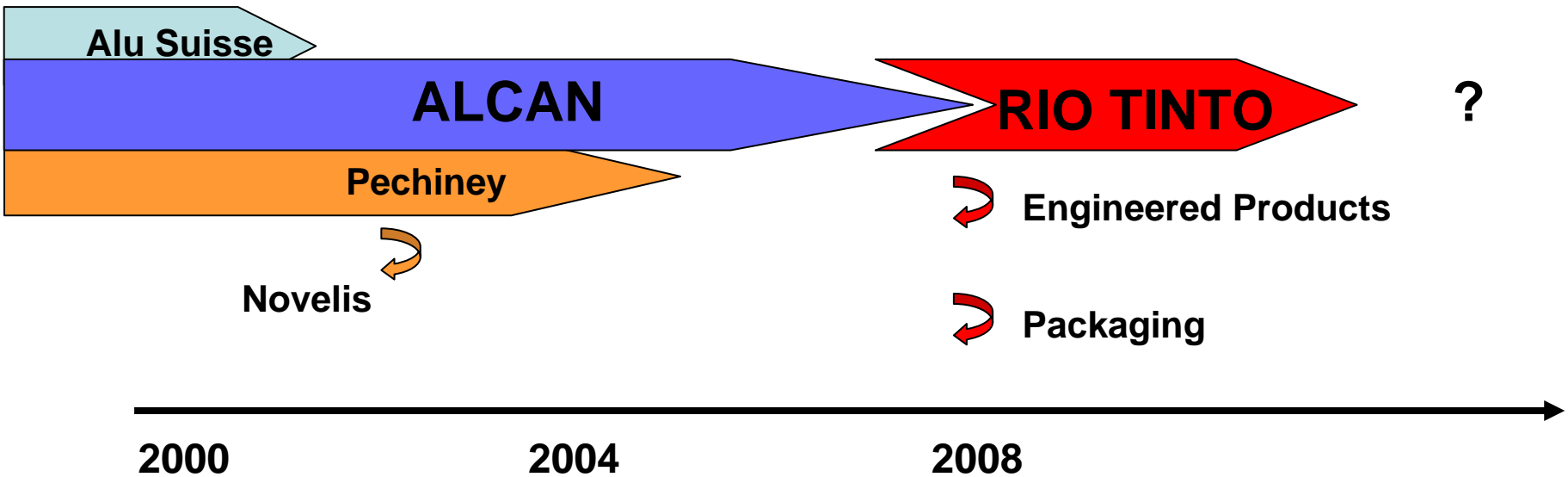
**15,000 employees in 31 countries
and regions**

90 production facilities



Alcan International Network

Managing knowledge in the context of mergers acquisitions



Managing knowledge at Engineered products : History and background (1/2)

- **2 KM entries from previous Alcan, AluSuisse and Pechiney and time :**
 - **Capitalization, from the production's side : 2000 / 2003**
 - **Based on an old preoccupation of formalizing expertise and experiences ; several KM experiences :**
 - **With operational engineers (book of knowledge, Community of practices)**
 - **With operators or technical resources (technical trainings)**
 - **Technical Directors yearly meetings**

Managing knowledge at Engineered products : History and background (2/2)

- **In 2005 KM new spur : Alcan's take over (2 years to be built)**
 - **New organizational pattern : more sites with knowledge to share (industrial synergies) + necessity to link experts across different Business Units**
 - **Overall context : innovation is key for a competitive company**
 - **Alcan management system (AIMS)**
- **EP priorities : AIMS, Growth, Operational excellence**
- **New EP context : developing / demonstrating its own technical culture**

Engineered Products Technology networks

- **In 2006, Christel Bories the EP CEO, gave to the Technology and Innovation department a new mandate :**



- > **Establish networks for best practice sharing and driving implementation to achieve operational excellence in EP technologies through best in class performance**
- > **Identified technologies are: casting, rolling, finishing, extrusion and recycling including the aspects of energy efficiency and environmental performance**
- > **These “Technology Networks” will constitute key enablers for the EP priorities programs and also form the basis for talent management and knowledge management in these technologies**

The EP approach : tying KM, Talent Management and technical training

5 axes to succeed :

First Per Business Unit (B.U.)

- 1) Competency mapping

Then Cross B.U.

- 2) Organize and pilot Talent Management (skills group)
- 3) Create the conditions to solve the technical problems cross B.U.
- 4) Manage Technical Networks and Communities of practice
- 5) Implement technical training according to development paths

Through AIMS

Technology Network: an enabler for Operational excellence and Growth programs through AIMS

Value-Based
Management
How we allocate
capital



Continuous
Improvement
Fine-tuning our key
processes



EHS FIRST
Striving for health,
safety and
environmental
excellence

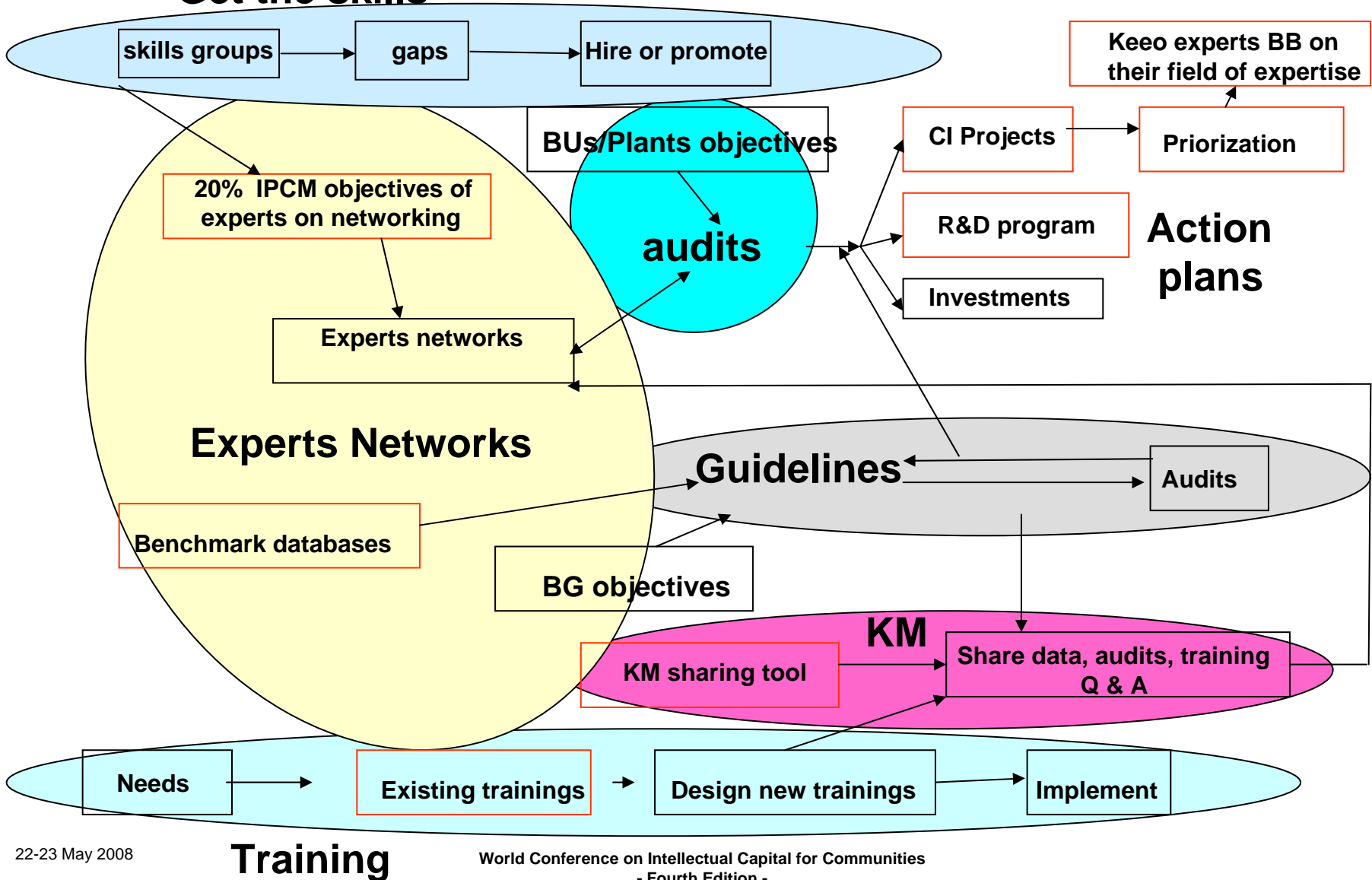


Alcan
People
Advantage
Engaging our
employees



EP Technology Networks: knowledge sharing process

Get the skills



How EP Technology Network works

- **The EP Technets are led by “Technology and Innovation” Department**
- **Establishes a set of standard rules to be adopted by each TN :**
 - **Organization : one leader, a 10 experts core team, 2 yearly meetings, quarterly conf calls,**
 - **interaction through a forum with questions/answers system, publications, yellow pages open to every technical people (276 engineers and searchers)**
 - **Communication : Newsletter, portal, meetings minutes, status report (action plan follow-up), KPI**
- **Means : a KM tool (forum), sponsorship of BG upper management + local (plants) management.**
- **Goals and practices : “Audits” (process workshop and mini workshop), work groups , REX, BP sharing, Quick Wins..**

Zoom on EP Technet forum : why a forum?

- **provided to the Technets members to promote and support their knowledge exchanges. 2 major functionalities :**
 - **Directories of skills (yellow pages) by skills or contacts**
 - **How can I find an expert on a certain topic?**
 - **Questions / answers system**
 - **People who need help, advices, information on a topic can automatically ask a question to the right persons. The question will be sent to the people declared as experts on this topic.**
- **This is also a way to capitalize and secure information and knowledge into a single, safe source.**
 - **Knowledge database built with :**
 - **Publications : members can post relevant documentation**
 - **Questions : once they are answered and closed, they become a publication**
 - **When a simple mail will be lost, and limited to some “happy fews“, a question will be saved and can be consulted next time**
 - **This implies that members will use the Forum (and not the mail) each time they need to communicate on a technical issue / topic.**

First learning – 2 years after

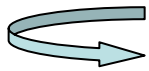
Guiding principles - Difficulties

- **Business first, difficult to find time to exchange**
- **Forget yesterday and tomorrow..... Not that easy!**
- **Difficult to build a culture of sharing when the organizational culture is changing (post and next mergers context)**
- **Culture of Sharing : give and give-back principles difficult to set up**
- **TN scope : TN are not designed to be “a club of experts”, but difficult to involve lower-expertises resources into the “core community”**
 - Forum widely opened to less experienced employees that can develop their skills (possibilities of consulting publications, asking questions..), but few contributions from them.**
- **Intercultural management challenge : a common language to exchange (English) But most of them are German or French : harder to communicate smoothly, harder to develop a common identity**

Next steps

- **Merger between Alcan and Rio Tinto**

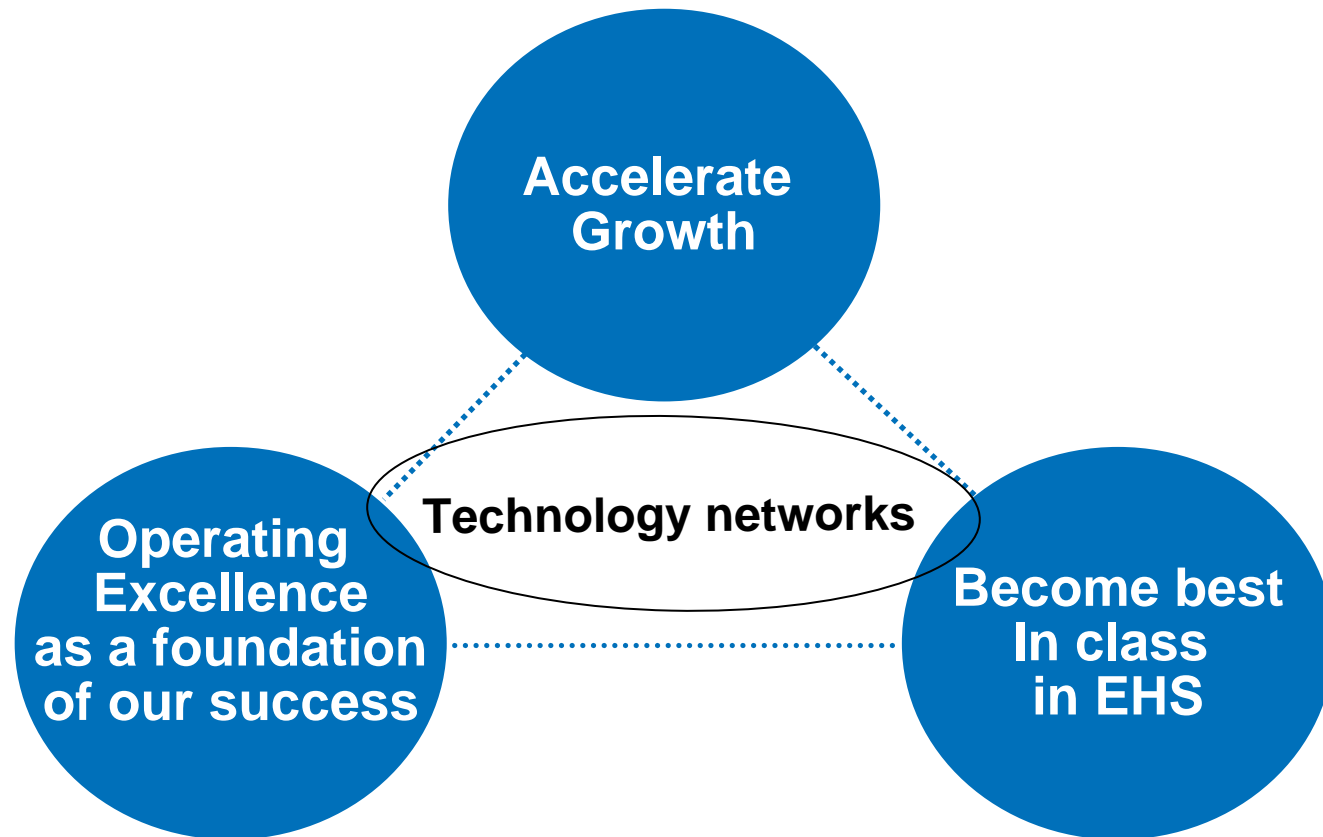
- **Alcan Rio Tinto sells Engineered Products**



Reinforce the feeling of belonging to Engineered products by sharing practices.

Next steps - Engineered products priorities : enhanced Value Creation going Forward, without the support of Alcan Rio Tinto

Technology networks, a key strengths on two pillars
and a necessity to reinforce the culture

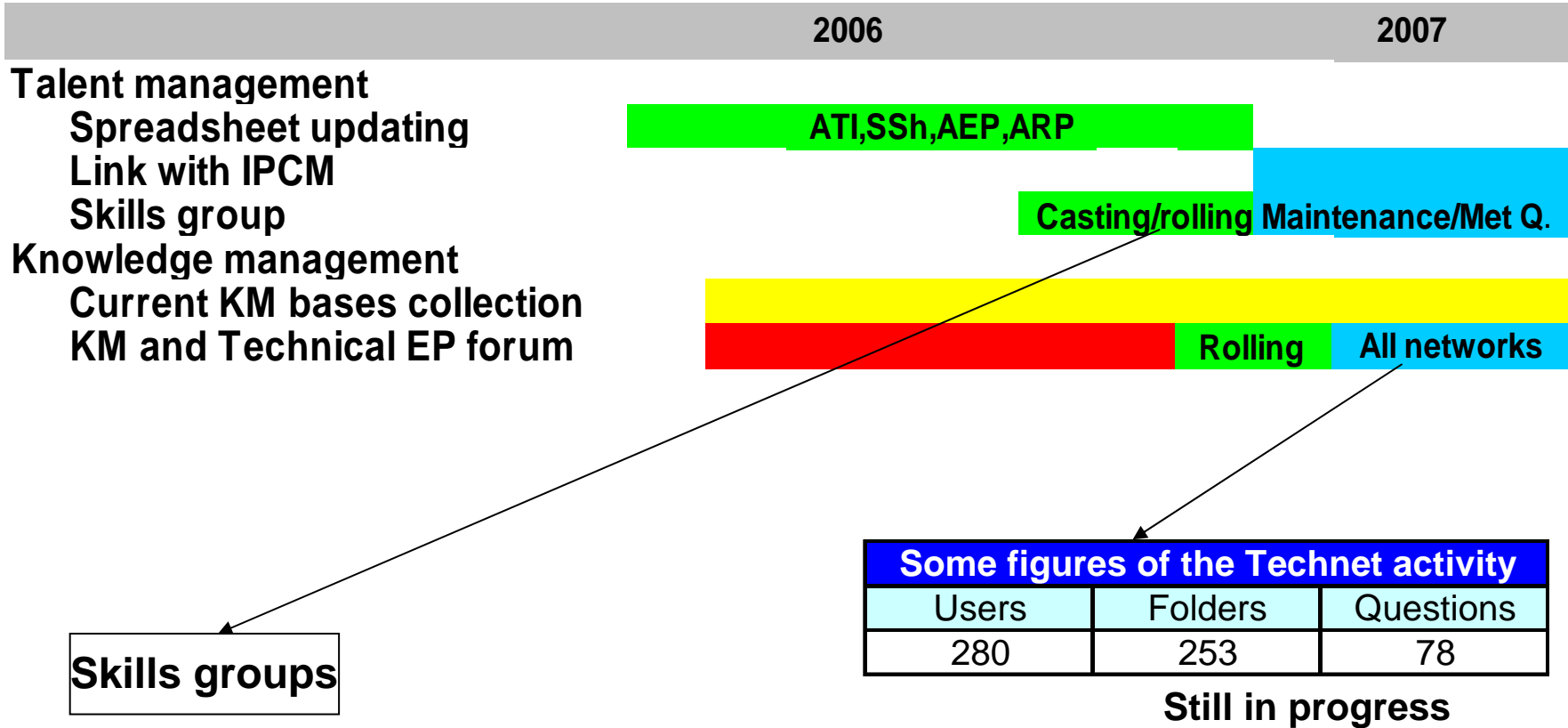




Thank you for your attention

Rio Tinto Alcan

APA : Talent and knowledge Mgt



ic4 C.I. : Example of technology audits

Intellectual Capital for Communities
in the Knowledge Economy

	2005			2006			2007		
CASTING	Iss	NH	Singen	ARP	Decin	Chippis	Steg	Mont	Iss
ROLLING								NH	

The audit team: Leader (from T&I) / T&I experts
Experts from other plants, BUs or BGs or external
 1 or 2 BB or GB from the audited plant
 With an existing framework set **by the community of experts**
 delivers at the end of the audit recommendations

After one month the plant issues an action plan

Link with CI



The CI type actions are followed up within the Plant CI and FFF projects

The R&D type actions are Followed up within the R&D program

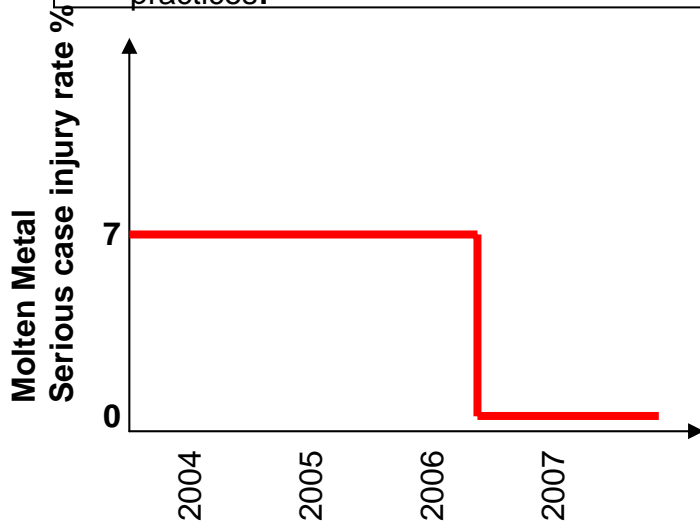
For KM 'forum and networking reasons all actions are followed up by the audit leader



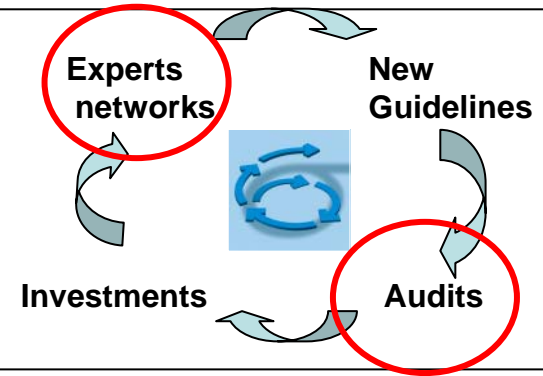
Ess : Ex for Molten metal safety audits

Objectives/Deliverables

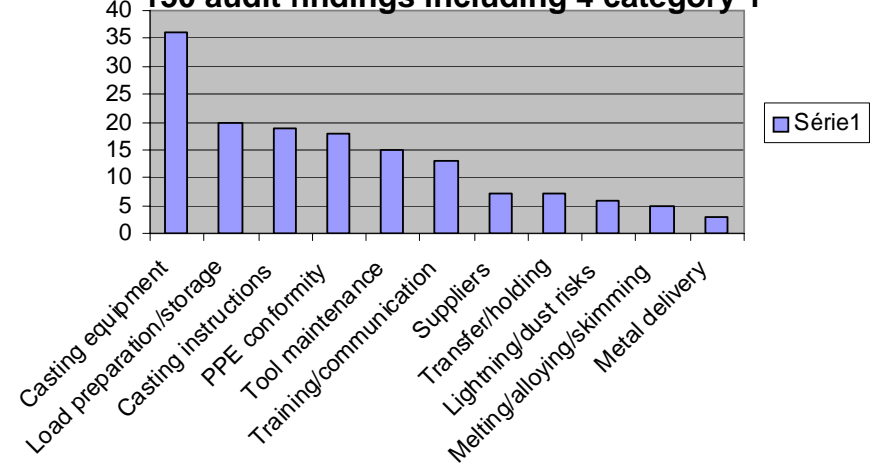
No worker injuries nor equipment damage due to molten metal
 Identify and implement good practices across all the EP casthouses.
 Define requirements for new investments and revamps to comply with identified good practices.



Action Plan Initiatives



150 audit findings including 4 category 1



Significant achievements

New EP guidelines (several versions from 2006 to 2008). New audit guide
 2 full rounds of audits have been performed across all Casthouses. 150 findings. A third one going on during Q2 2008
 Over 25 M\$ investment requests
 0 Molten Metal related Serious Case Injury recorded since end of 2006

VBM : Technology Networks

2005	2006	2007	2008
Recycling	Focus on training		
Casting	Link with CI for better action plan. Audits		
Hot Rolling	KM pilot.	Audits	
Cold rolling		Audits	
Finishing plate		Strong ARP involvement	
Finishing coil		Audits	
Auto/Measur.			
Maintenance			
Energy			Audits and pilots

