



best
practice

Alcoa's Best Practice Transfer Program

One is Not Enough!

Global Primary Products



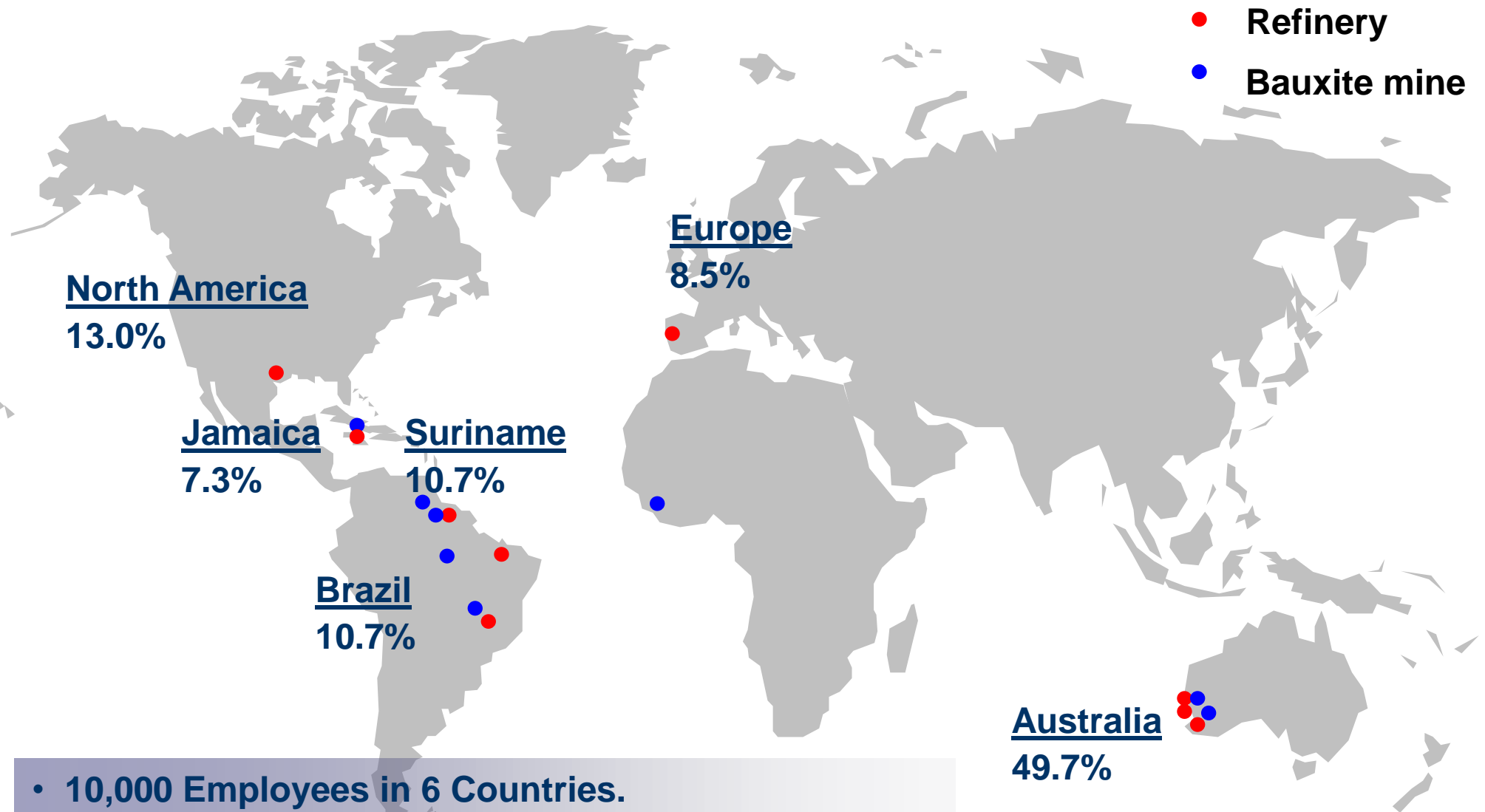
Global Rolled Products



Engineered Products and Solutions

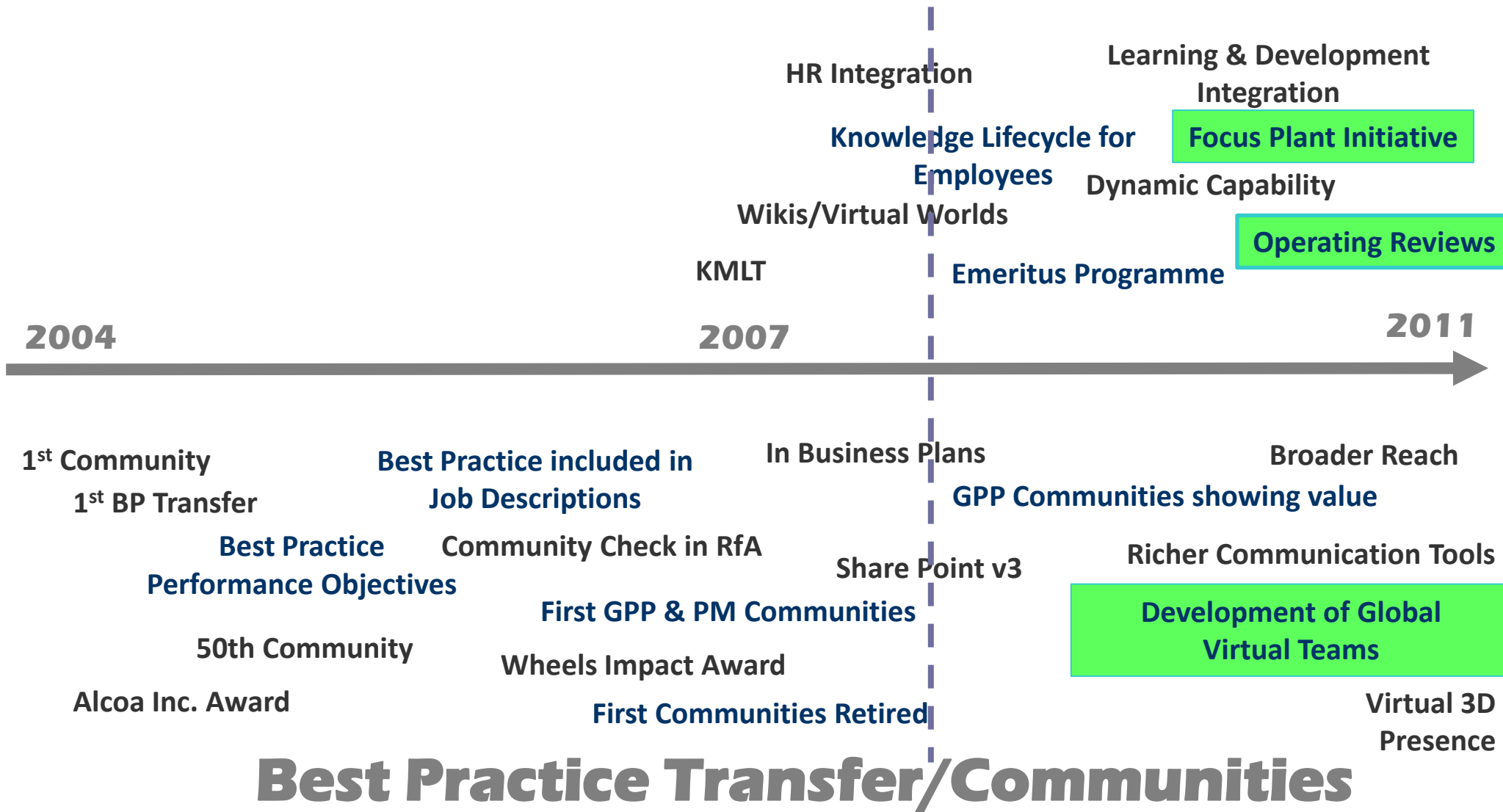


Refining Global System



- 10,000 Employees in 6 Countries.
- 17+ operating locations.

Broader Knowledge Management



- The program enables **groups of people** who have similar roles to **deepen their expertise** through **ongoing interaction** and apply this to alter operating and maintenance routines to our current best method.
- The initial problem was a lack of standardisation across our locations in areas where it was possible and profitable.
- **Communities of Best Practice** are the structures we have put in place to address this issue.
- There are limitations to what Communities can do.
- One method alone is not enough!



Absolutely!!

 **150+ Best Practices**
documented

 Repaying the **\$\$\$**
investment **x 10**

(Pay back is higher,
but hard to track)



- **1700 people per month** collaborating
- **15 - 20 conference calls per month** connecting people to converse
- **Formal & Informal Transfers**
- in operations, maintenance, technical, reliability, H+S, finance and environmental



- Our Communities are aimed at helping people involved in **medium term problem solving** – not short term fixes. They don't always identify **systemic problems** that require a suite of practices to fix.
- As our Communities are largely virtual, identifying and transferring a set of practices is very difficult
- With highly diverse virtual groups, there is **risk of mis-communication** causing errors and confusion, slowing transfer
- Adjusting a practice to local context is **extremely difficult to do virtually**



Creating specific teams and getting people face to face

Global Virtual Teams

- Created within and between Communities
- Defined goals to produce or deploy practices to a deadline

Focus Plant Events

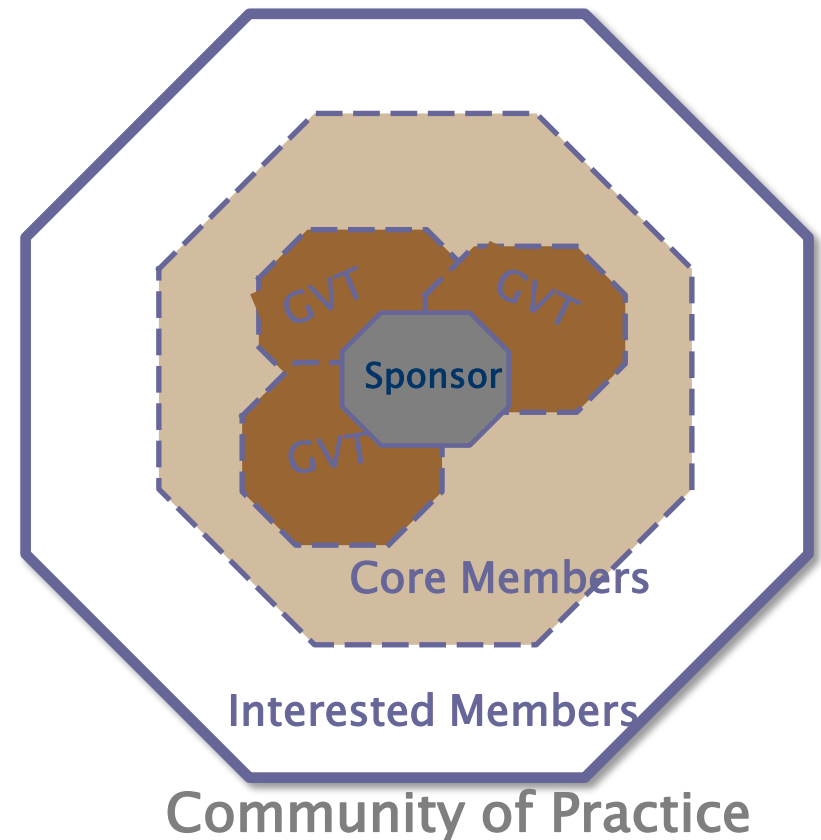
- Collect experts to solve large problems in specific areas and transfer to all locations

Operating reviews

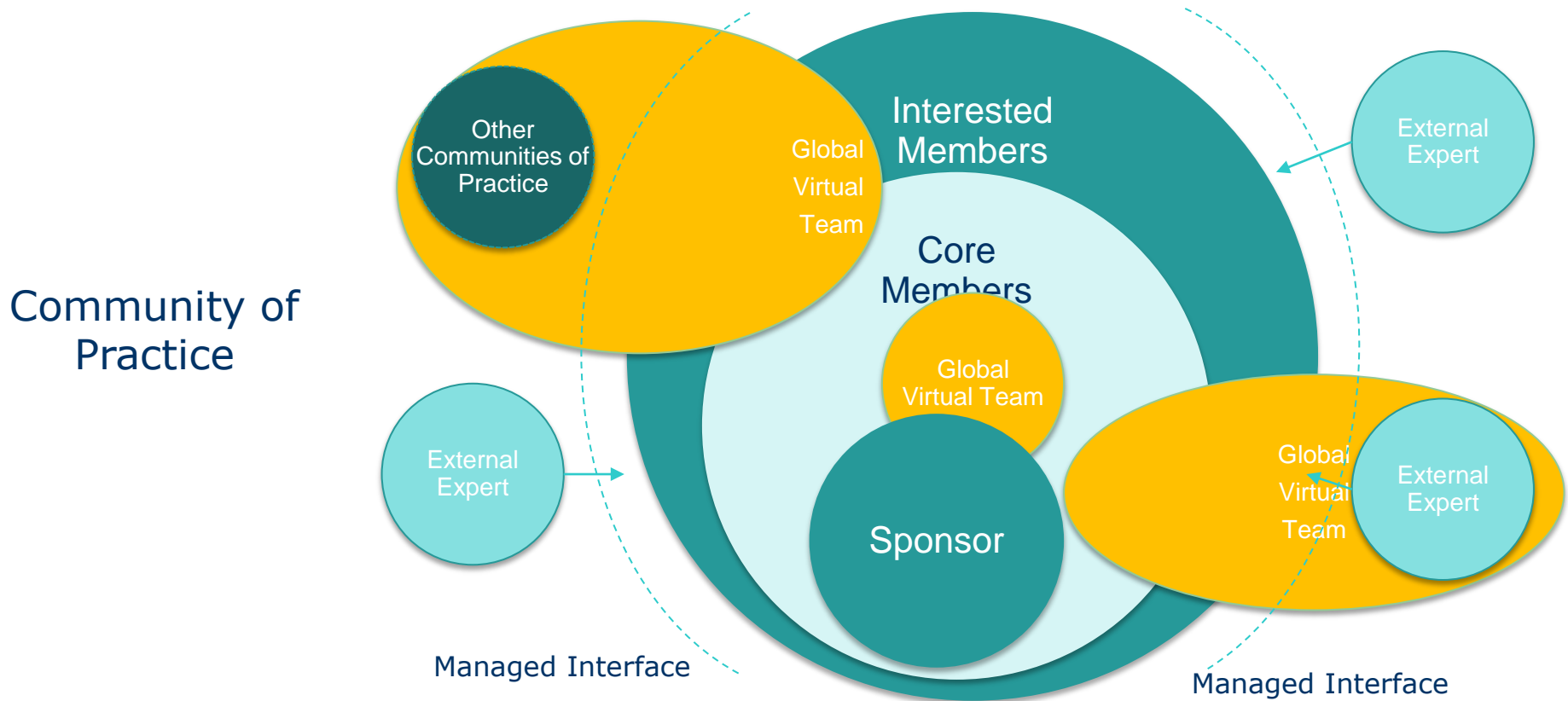
- Audit Best Practice implementation, create 3-5 year roadmaps for improvement for whole location



- 🕒 We have seen some members within a Community wanting to **achieve more** - delivering on KPI's and completing projects & trials
- 🕒 Membership has become **a requirement** of certain positions (e.g. Engineers) ,
- 🕒 The business has formally requested some Communities **achieve specific targets** in **2010 business plans**
- 🕒 These developments have led to an emergence of what is defined in academic and business literature as **'Global Virtual Teams'**
- 🕒 Within the 'GVT' **membership & roles flex** as they deal with specific problems
- 🕒 The entire community remains as a place of learning and sharing



Formal GVT's may take members from different communities of practice



Supporting Tools



Social Tools

- Wikis
- Collaboration Tools



Formal Tools

- Technical Archives



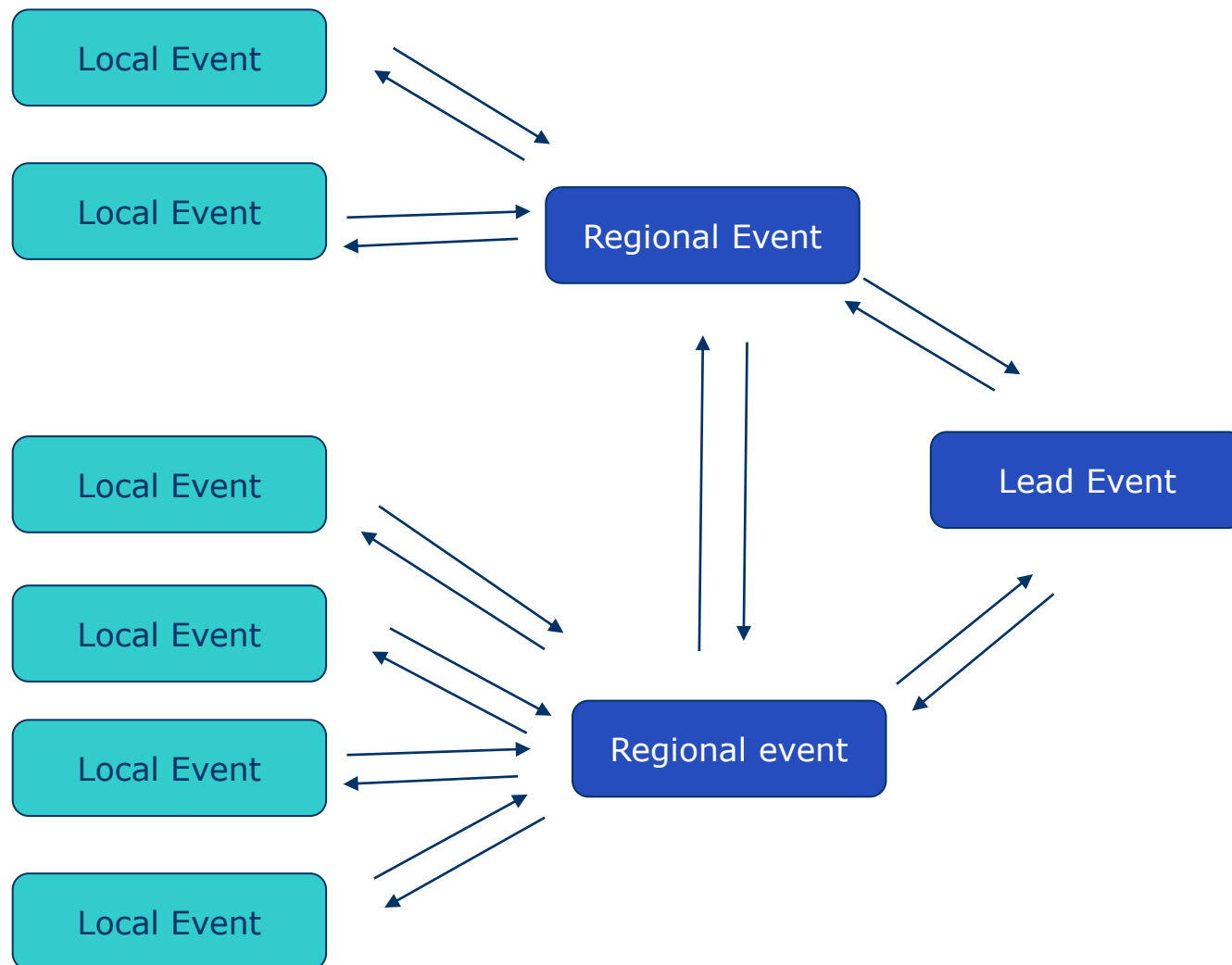
Experts








- Internal Expert Directory

Strategy to accelerate the rate of improvement practices across GPP through the implementation of **best practices**

- Close gaps to benchmark levels at all plants in areas of major business opportunity
- Sustainable system improvements fully embedded in Alcoa's Business System
 - Process Management
 - Reliability
 - Operations
- Convene multi-discipline plant teams to major events at Regional Focus Plants to work on defining major gaps, agreeing on, documenting, and implementing best practice to close them
 - Quantified business case with significant financial impact
 - Discipline execution committed and tracked through degrees of implementation (DI)
 - Rapid implementation across all locations through cascading events

Refining Regional Focus Plants as BP Disseminators



-  Assemble a multi-disciplinary team to review performance in the areas of Operations, Technical, Reliability, Business System, People, Laboratory and External Factors
-  Optimizing the production and equipment strategies to deliver both incremental and step changes to a location's cost structure over the next three years.
-  Audit the performance of current best practices.
-  Produce A3's that solve today's problems
-  Consider alternative future scenarios and strategies that make a step change in performance
-  Develop a summary of key enablers to move to the target state
-  Solve one problem per team to Operator level



Best Practice Transfer

- Communities
- GVT's
- Focus Plant Initiative
- Operating reviews

New Process Development (TDG)

Process Management (ABS)

New Equipment Development (TDG)

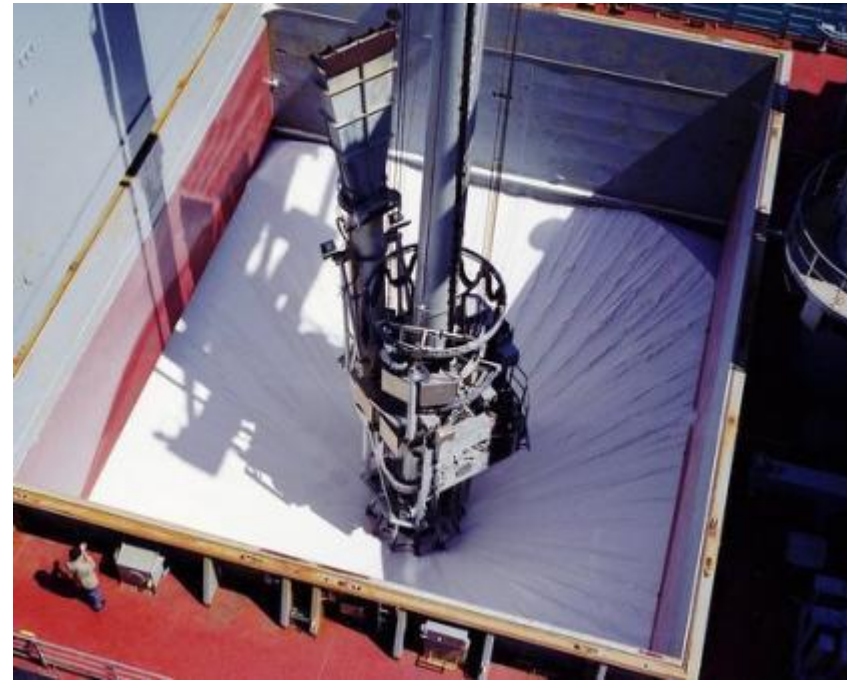


New Plant and
Expansion Design



**Improved
Profitability
within all
Refineries**

- This layered approach will drive Alcoa's system cost to the lowest quartile in five years
- Significant competitive advantage through cost reduction
- Typically reducing costs by around 3% per event





communities of best practice

...are changing the way people work.

Communities are groups of people with a common cause who, as part of their everyday job, interact with others to review and discuss their work. Communities are permanent entities and become an everyday part of people's working lives.

Communities >

- Connect People** in the roles at different locations. Typically led by a technical expert, members routinely discuss and review processes, problems and new ideas. Communities allow you to find the right people, with the right knowledge at the right time.
- Compare Performance** of each location so that best performance can be identified and applied. Members review documented processes and collectively surface best practices.
- Recognise Effort** of people who strive for improved performance, who initiate solutions and who are willing to make the most of a resource available to them.
- Share Knowledge** to quickly transfer better performance to all locations. Innovative ideas, solutions and technical improvements can be easily implemented across the world.
- Retain Knowledge** of the company by gathering the collective pool of knowledge in one place for future generations to use and review. Communities become the one place to find the latest information on a particular subject or area.
- Resolve Problems** quickly by getting access to more resources than is possible at just one location. Members co-ordinate tests and trials ideas at various locations to gather better data.

Best Practice Communities

- improve performance
- save \$\$\$\$\$\$ and
- make our workplace safer.

Identify, Document, Sanction & Transfer Best Practices

For find out more information go to:
<http://bestpractice.teams.alcoa.com/bp>

