



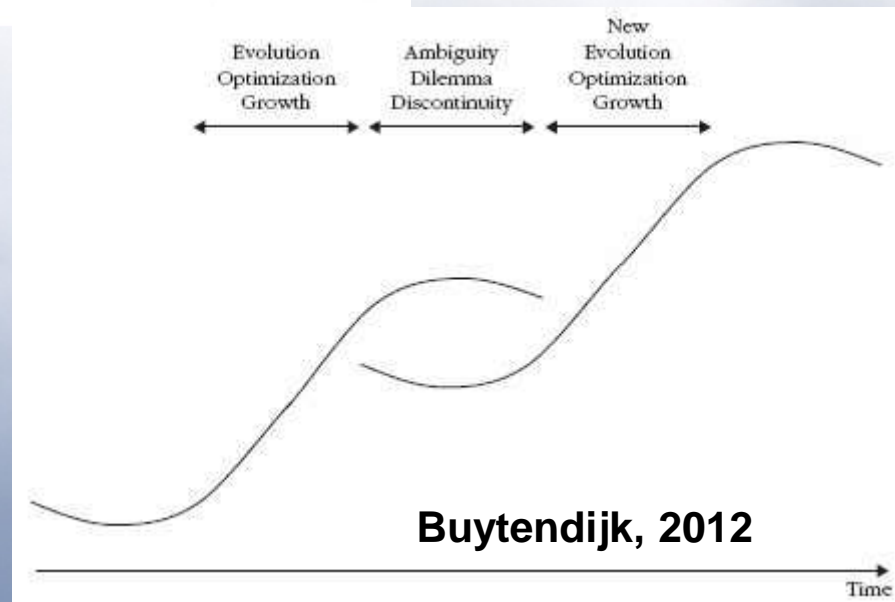
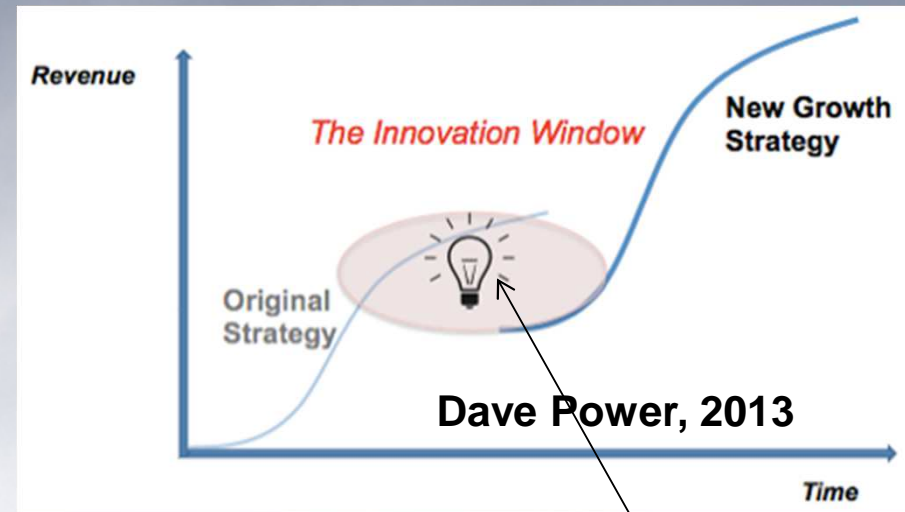
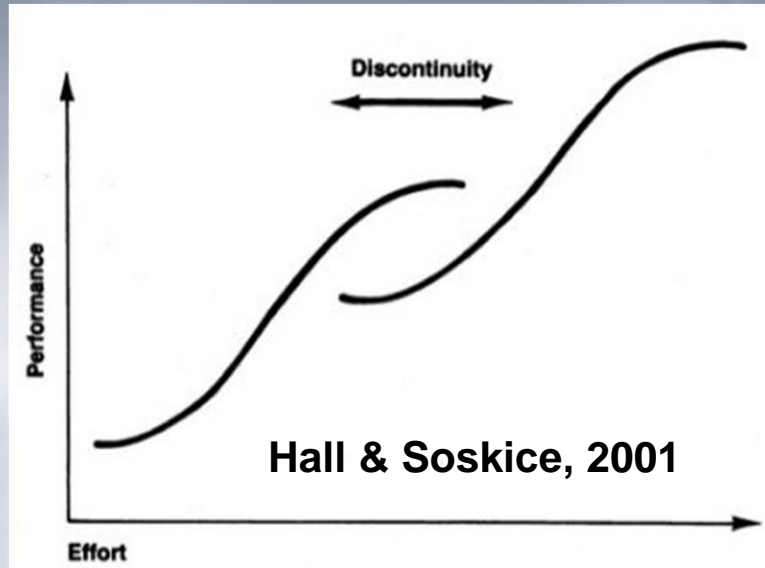
Round Table:  
Standardization to Support Innovation and  
Commercialization of HFC Infrastructure

Andrei V. Tchouvelev

***"We can't solve problems by using the same kind of thinking we used when we created them."*** Albert Einstein

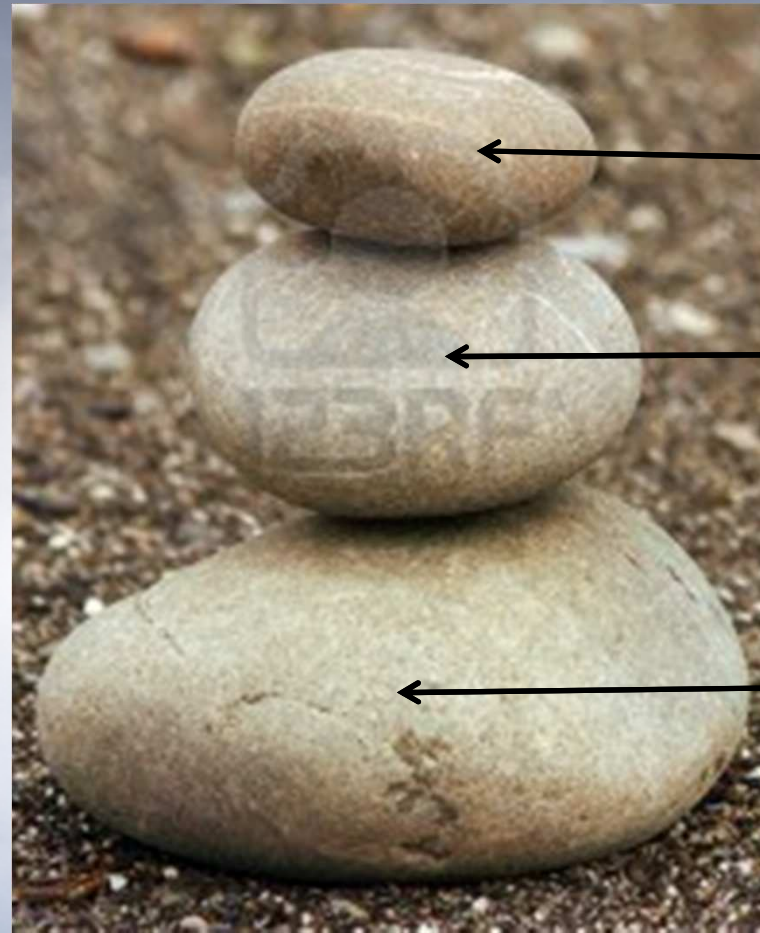


# Extrapolating to ISO/TC 197



**ISO/TC 197 today:  
historic opportunity for  
innovative change,  
discussed in Montreal  
in February 2013**

# Generic RCS Pyramid



Legislative acts

Documents for built environment and safety enforced by local AHJs

“Component” standards and generic “protocols” independent on local AHJs

“Component” is a cumulative generic term for individual components (like valves, hoses, etc.), more complex components (like a dispenser) and component systems (like an electrolyser, reformer, storage unit, PSA etc.)

“Protocol” is a cumulative generic term for protocols and procedures

# ISO/TC 197 Program Structure and Approach for 2013-2015

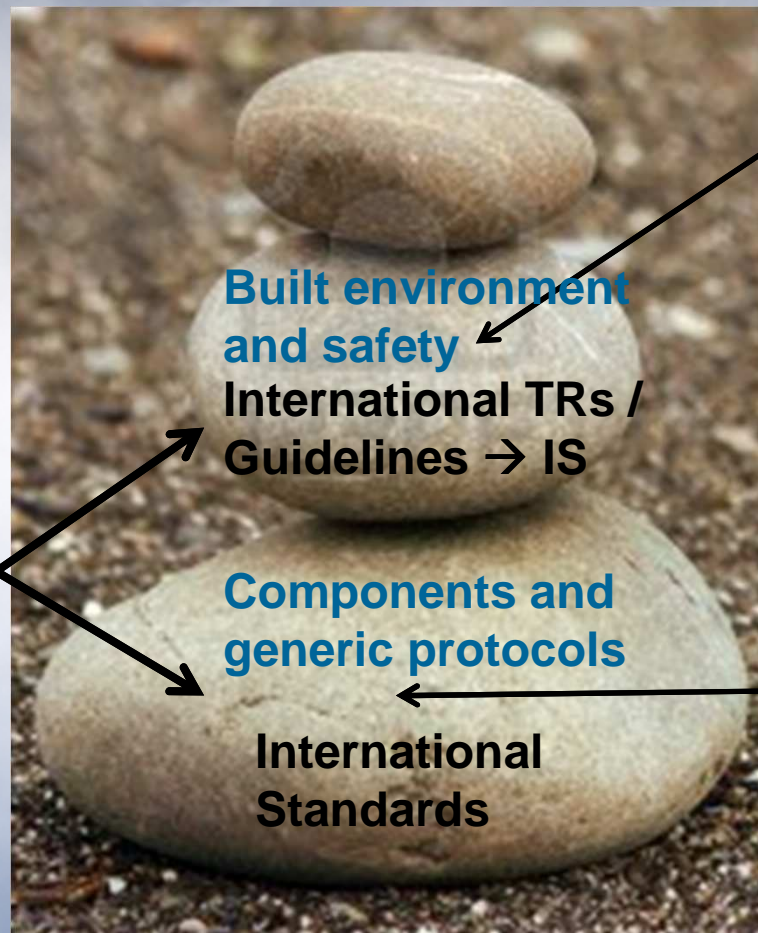
## Approach to BE&S:

- ☐ Map knowledge and best practices
- ☐ Identify knowledge gaps
- ☐ Trigger PNR
- ☐ Build international collaboration
- ☐ Time: 12 – 24 mo

ISO/TC 197  
focus

## Approach to Comp:

- ☐ Well developed seed documents
- ☐ Industry validation and strong need
- ☐ Time: 12 – 36 mo



## Built Environment and Safety:

- ☐ WG16
- ☐ WG19 (new)
- ☐ WG27 (new)

## Components and Vehicular Applications:

- ☐ WG 18 (new)
- ☐ WGs 20-23 (new)

## Production, Storage and Handling:

- ☐ WG15
- ☐ WG17
- ☐ WG25 (new)

## Stationary and Fuel Cell Applications:

- ☐ WG14
- ☐ WG26 (new)