



The "process" of Innovation

Pervasive Messaging Technologies

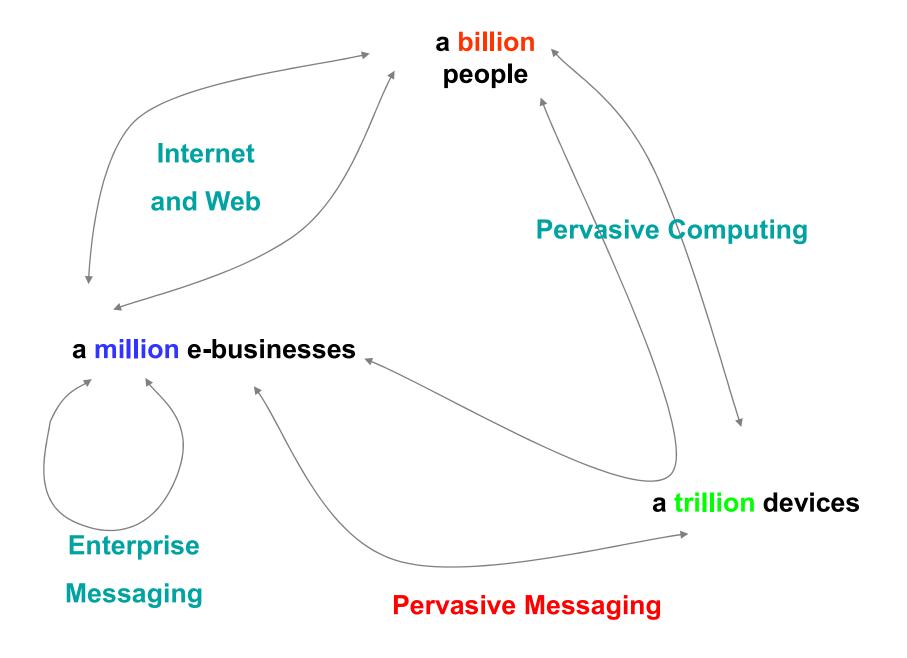
Dr Andy Stanford-Clark

Master Inventor
Distinguished Engineer
Pervasive Messaging Technologies
IBM, Hursley, UK

andysc@uk.ibm.com

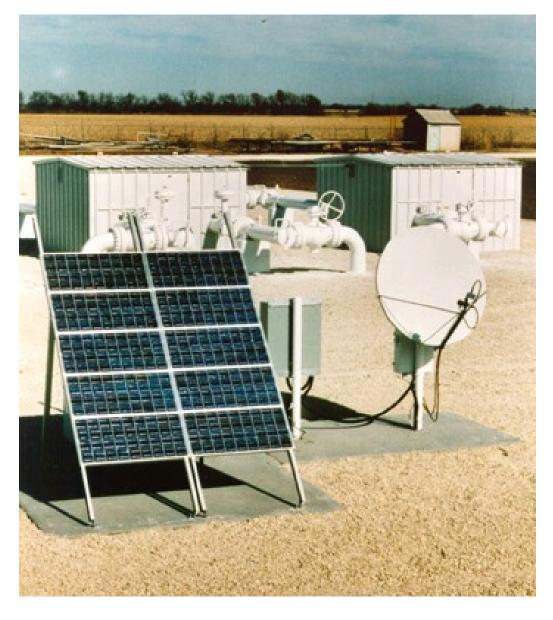








Remote monitoring station



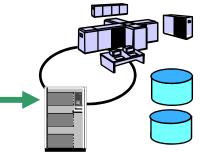


Electricity monitoring

residential



WebSphere Message Broker

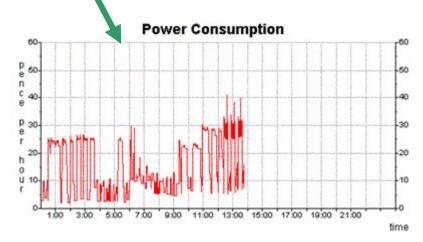


Data mining application for tariff optimisation, based on usage

commercial



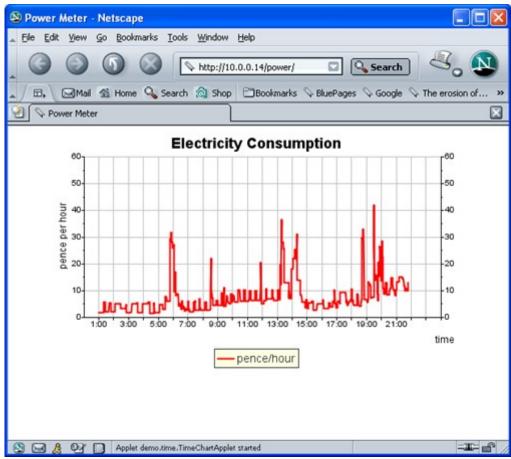
Java "dashboard" applet running in Web browser on PC, subscribing to broker for live data





Power Meter



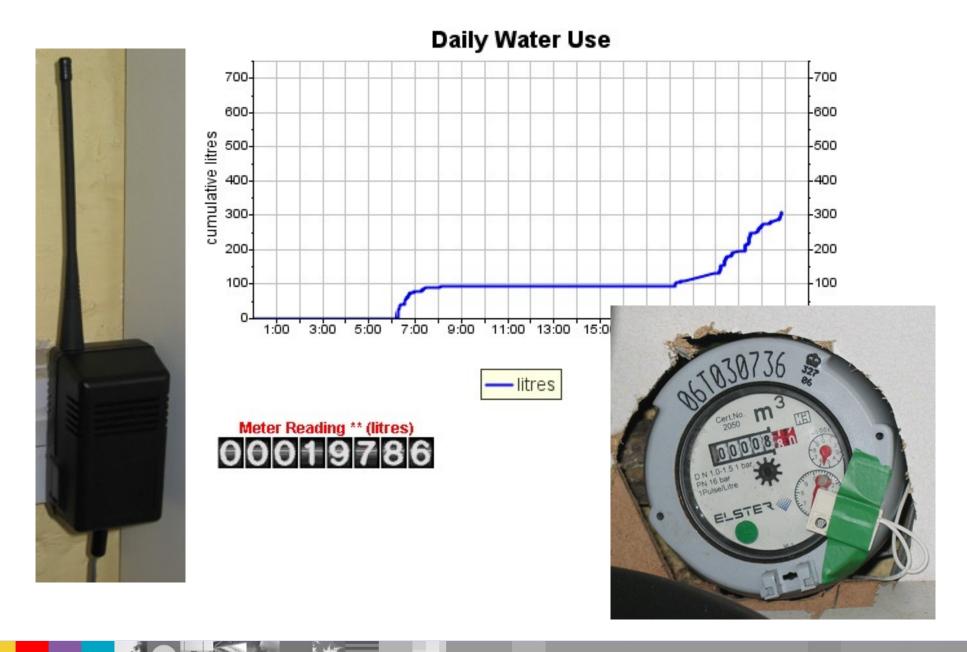


0-20p/hour – green 20-40p/hour – amber 40-60p/hour – red!





Water Meter



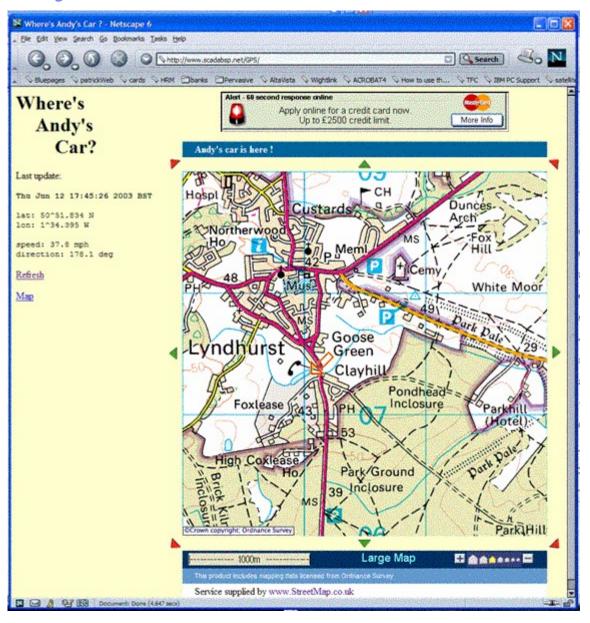


Car telematics





Where's Andy's car?





Pay-As-You-Drive insurance







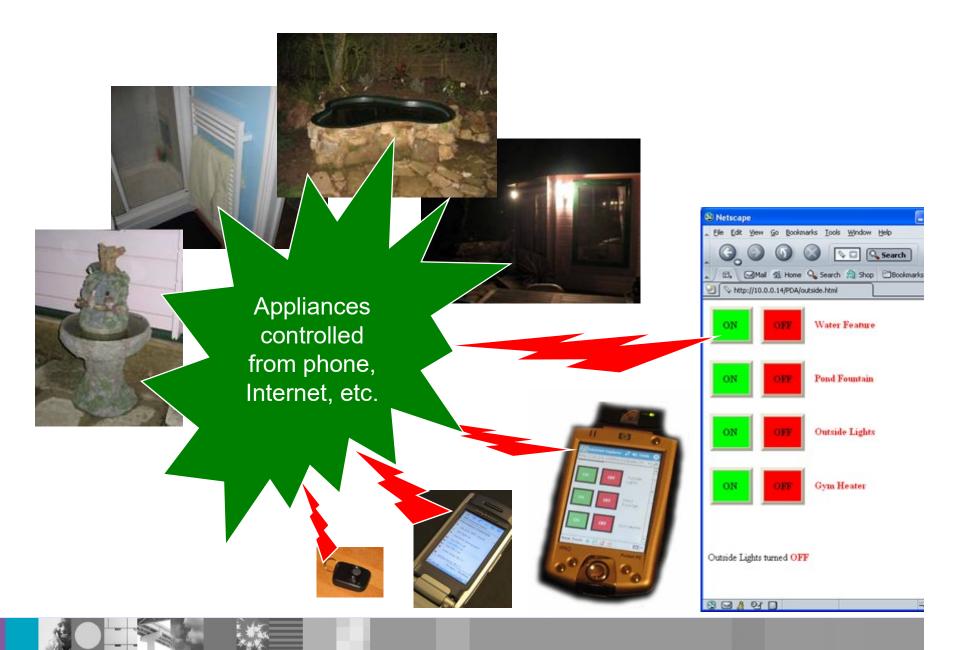
Norwich Union are the UK's largest insurance group, backed by Aviva plc with over £200 billion of assets under management and 25 million customers worldwide, a market share of around 16 per cent and is more than 1.5 times the size of its nearest rival. It is also the largest personal lines insurer.

IBM leverages its work with Progressive Insurance, its partnership with Orange and WebSphere MQ Everyplace to drive an innovative new business model for the UK's largest insurer, Norwich Union Insurance pay-as-you-go car insurance

"Customers choosing Pay As You Drive™ insurance will benefit from individual premiums based on how often, when and where they actually used their cars. Motorists would receive a fairer deal as this initiative provides them with the opportunity to really be in the driving seat when it comes to controlling their premiums." Robert Ledger, programme director for Norwich Union



Home automation





X10 Patio Lights





X10 Patio Lights





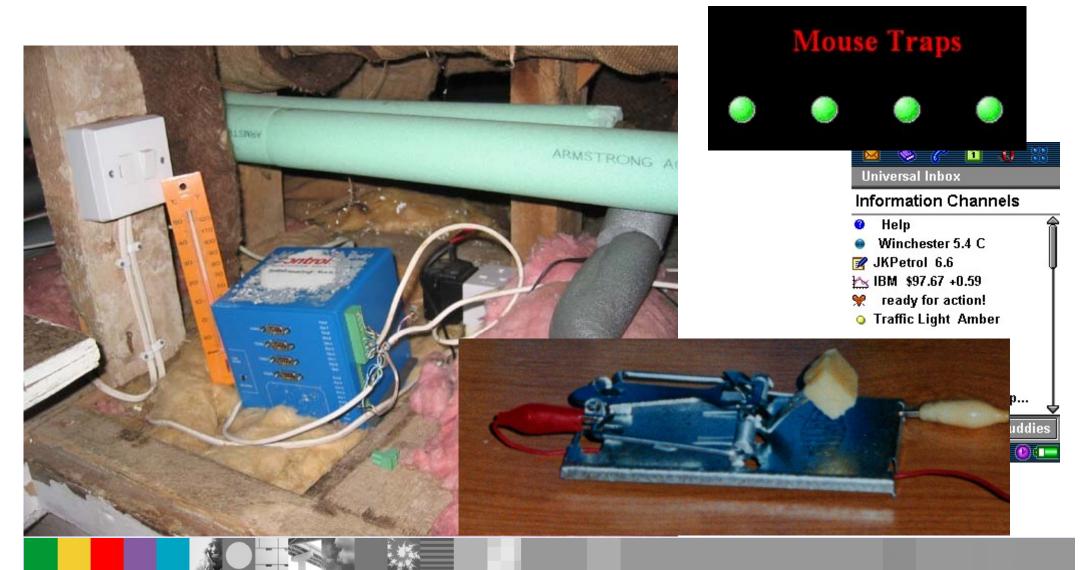
TXT the reindeer!





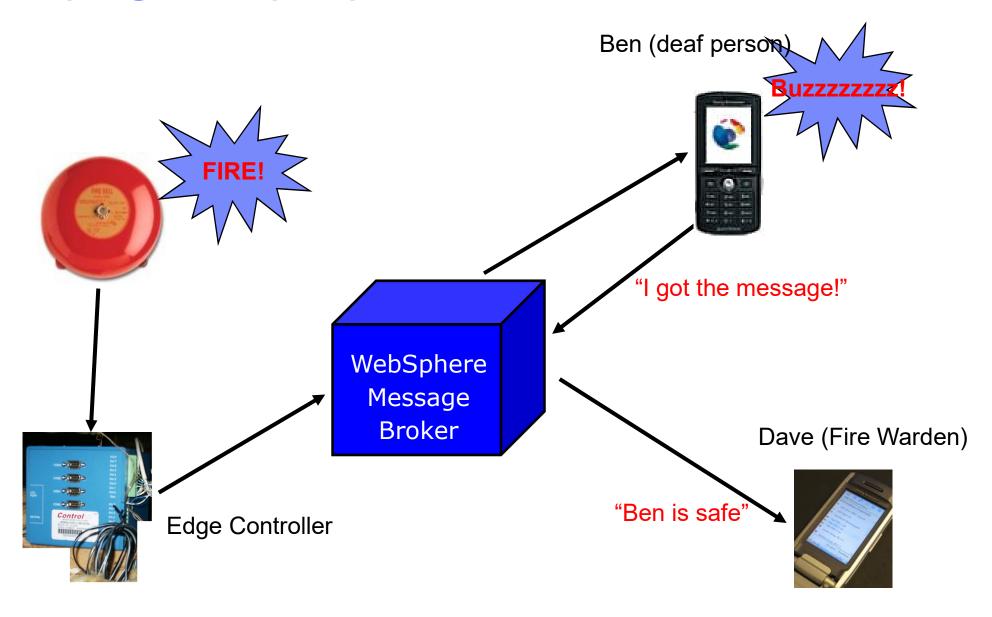
Mouse Traps

"Mouse Events" sent to dashboard and cellphone

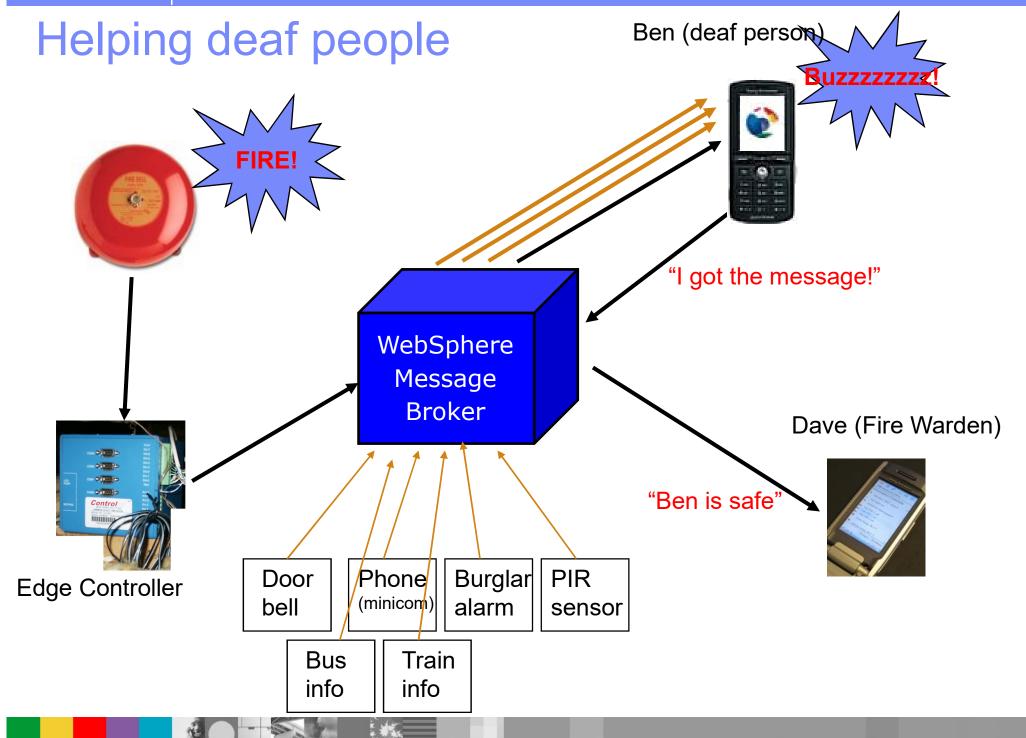




Helping deaf people









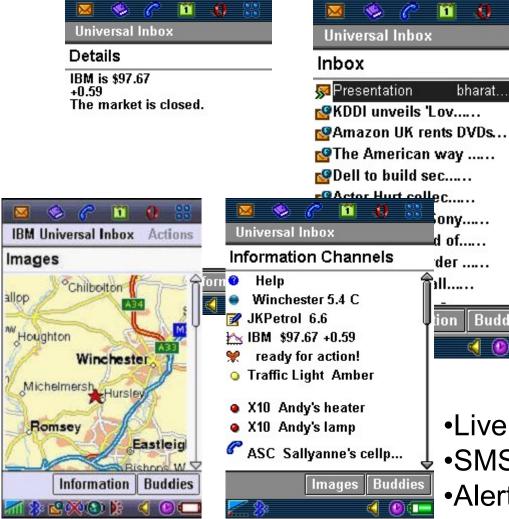
Pervasive Accessibility

Helping deaf people play on a level playing field with their hearing colleagues: at home, in the work place, and in public.





"UIB" - Universal InBox





Live dashboard display

0 133

Buddies

bharat...

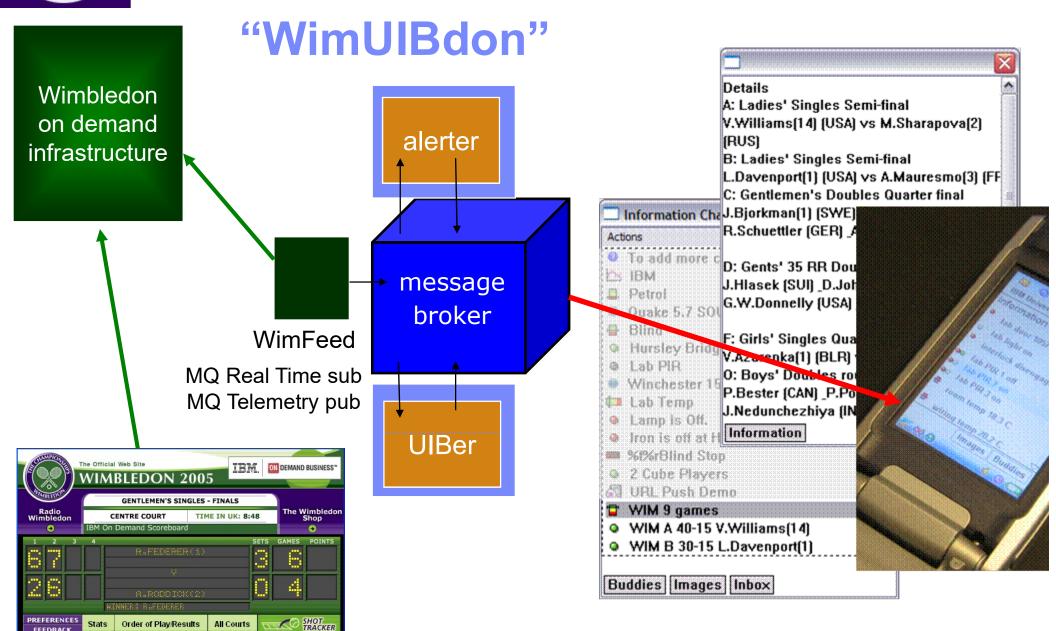
- SMS/IM-style messaging
- Alerts and notifications
- Action buttons to activate/respond
- Image and sound delivery



UIB in the News



BBC NEWS | Science/Nature | Chemists escape labs via mobiles - Netscape





Location-Aware Messaging for Accessibility

- •IBM Extreme Blue project Summer '06
- •Four students working for twelve weeks Southampton, Cambridge, Northumbria
- Broad remit, focus on demonstrable results
- •Location-based services delivered via mobile phones to people with sensory impairments.



LAMA



"The train for Waterloo has been changed to platform one"



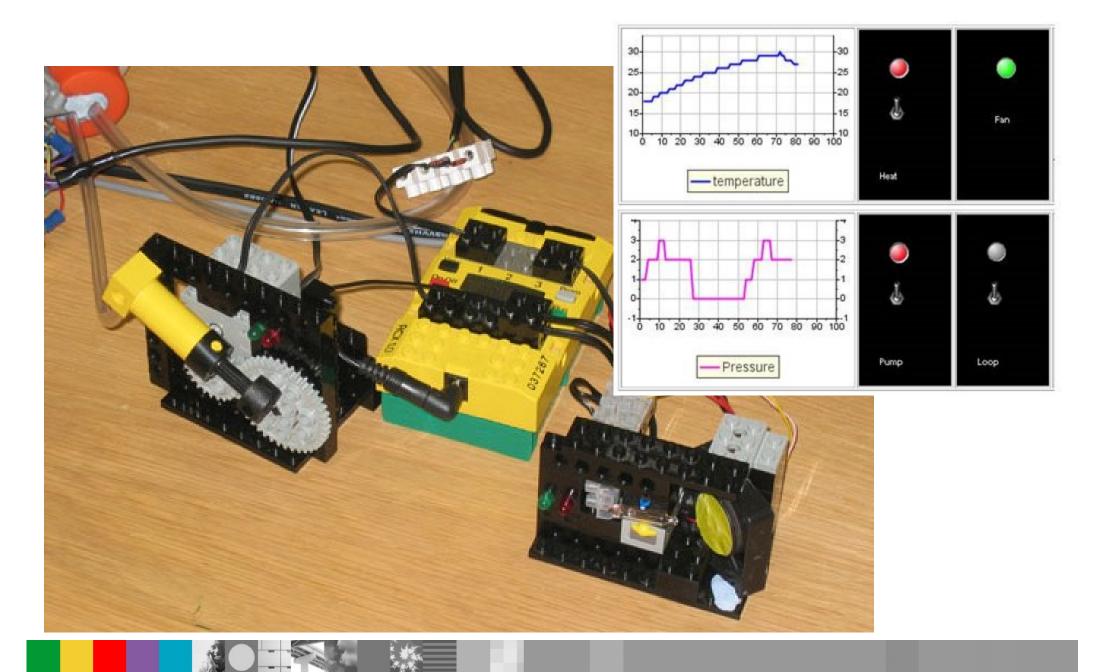
LAMA



"May I suggest as a small step in that direction IBM keeps the acronym but changes the meaning to Location Aware Messaging for All" – Bloor Research

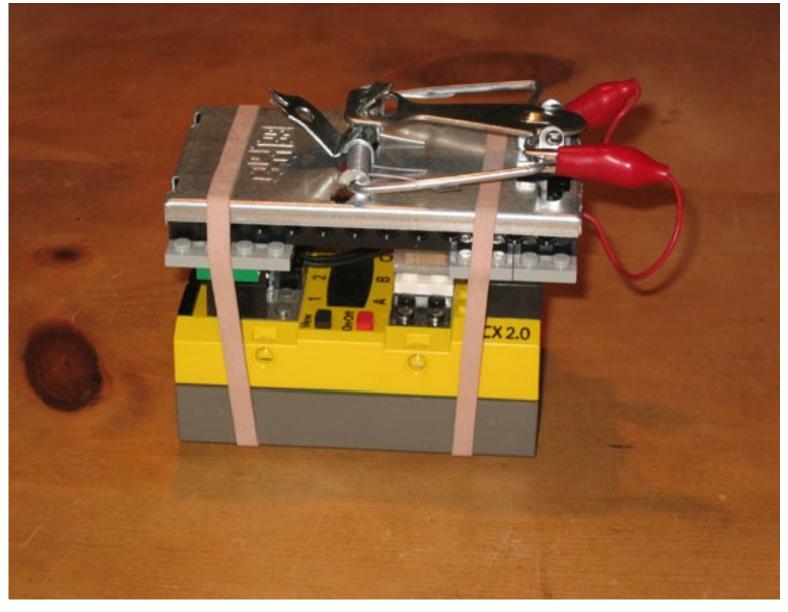


Lego MindStorms for Industrial Automation





And the famous mousetraps!









And finally... the llamas!





Pervasive Messaging Technologies

Thanks for listening!

Andy Stanford-Clark

andysc@uk.ibm.com