

Feasibility Study Ideas

Redistributed Manufacturing in Healthcare Network (RiHN)
Sandpit Workshop – 28th April 2015, Nottingham University

GROUP NAME: a

From an analysis of the discussion at Stage 4, propose how the most promising top three ideas might be taken forward

	Feasibility Study Idea #1	Feasibility Study Idea #2	Feasibility Study Idea #3
What should be investigated?	<p>CELL SAFETY: FRESHNESS & SECURITY OF MEDICINES</p> <p>Q. what does best in class looks like? BIC.</p>	<p>TEST BED (Technology, Environment, Safety, Treatment)</p> <p>How do we change a linear approach to innovation to a circular approach that takes into consideration the patient & machines experience</p>	<p>TEST I-TRUST</p> <p>Q. WHO DO I TRUST WITH MY DATA?</p> <p>SUSTAINABILITY (Digital Data)</p> <p>'Building Brand Equity!'</p>
Why should it be investigated?	<p>FUNDAMENTAL RESEARCH ACTIVITY.</p> <p>CORE TO EVERY LAB.</p> <p>GLOBAL CHALLENGE</p>	<p>HOW DO WE INFLUENCE THE FUTURE OF RE-DISTRIBUTED MANUFACTURE FOR ENHANCED EXPERIENTIAL BENEFIT & FINANCIAL GAIN.</p> <p>'LESS IS MORE' (Redesign, Rebuild, Re-construct)</p>	<p>Empower consumers/man to control/manage data about themselves Longterm.</p> <p>'To attract trust'</p>
How should it be investigated?	<p>LANDSCAPE SURVEY OF FIELD</p> <ul style="list-style-type: none"> - JOURNEY MAPPING - VARIABILITY TESTING 	<ul style="list-style-type: none"> - Point of Care Review (error mapping) - CASE STUDY (USER CENTRIC) - patient (general use beds) gen/spec - Economic business case - workshops (Technology Roadmap) - Journey mapping - Risk, Governance, Innovation 	<ul style="list-style-type: none"> - Qualitative study - (consumer cent) - Whole-system data model. (time, volume) - Assess the public life of data.
	<ul style="list-style-type: none"> - CONSORTIUM WORKSHOPS. - SENSOR RESEARCH. 	<ul style="list-style-type: none"> - Bed blue-printing (design for disassembly) - Concept (system-design) modular levels. 	<ul style="list-style-type: none"> - (where does it go?) - (who does it go to?) - (How many handsakes) - Data Foot Print.

GROUP NAME: B

From an analysis of the discussion at Stage 4, propose how the most promising top three ideas might be taken forward

	Feasibility Study Idea #1	Feasibility Study Idea #2	Feasibility Study Idea #3
What should be investigated?	Current & Emerging sensor tech to drive redistributed business model	Defining appropriate evidence of how to communicate this broadly	Systems Engineering - Hypothetical Case study
Why should it be investigated?	Its an critical enabler of aerospace, energy	Its an important gap	How would you create team to take from challenge to finished product - able to articulate what barriers - is lack of understanding above
How should it be investigated?	Understand application space, Right, multidisciplinary team; Leverage existing networks from other disciplines	Joint project with MRHA. Secondment for example	Case study hypothetical or real

Stage 5 – Feasibility study ideas

GROUP NAME: REGION MED 1.

From an analysis of the discussion at Stage 4, propose how the most promising top three ideas might be taken forward

	Feasibility Study Idea #1	Feasibility Study Idea #2	Feasibility Study Idea #3
What should be investigated?	IDENTIFY CIRCUMSTANCES UNDER WHICH RDM WILL BE USEFUL AND CRITERIA FOR THIS.	IDENTIFY THE CURRENT TECHNOLOGIES SUITABLE FOR RDM AND ITS ENVIRONMENTAL CONTEXT	UNDERSTAND WHAT WOULD BE NEEDED IN ORDER FOR TRUSTS TO ADOPT THIS APPROACH.
Why should it be investigated?	CAN BE USED AS A WHITE PAPER ROUTE MAP FOR ACCELERATING ADOPTION	SHOW WHAT WOULD BE MORE WOULD BE REQUIRED TO ADOPT AND ∴ THE TECHNOLOGY GAPS	TO REMOVE BARRIERS TO ADOPTION UNDERSTAND THE CLINICAL NEED.
How should it be investigated?	<ul style="list-style-type: none"> - LINK TO RMEG STUDY OF HYPOTHETICALS - CREATE A GLOSSARY OF TYPES. - INTERVIEWS WITH KOLS. 'PUSH' <p>(LING. MANUFACTURERS)</p> <ul style="list-style-type: none"> - COGS STUDIES (PROCESS ECONOMICS) 	<ul style="list-style-type: none"> - TECHNOLOGY AUDITS. - PROCESS MAPS WITH BREAKS IN CURRENT CAPABILITY. 	<ul style="list-style-type: none"> - SURVEYS OF UNICLIANS & KOL - IDENTIFY ADVOCATES 'PULL' - MAPS OF PRACTICE WITH INTRODUCTION POINTS. - OVERVIEW OF RECEIPT AND INVENTORY ARRANGEMENTS <p>C.F. 'PATHWAYS TO INNOVATION' (JOHN EGAN)</p>

Stage 5 - Feasibility study ideas

GROUP NAME: D

transport catapult

From an analysis of the discussion at Stage 4, propose how the most promising top three ideas might be taken forward

medical school / mg. un.
psychological

	Feasibility Study Idea #1	Feasibility Study Idea #2	Feasibility Study Idea #3
What should be investigated?	<p>* VARIABILITY</p> <p>* INPUT USER PRODUCT</p> <p>* ENVIRONMENT</p>	<p>* SHELF LIFE</p> <p>* WINDOW FOR SHIPPING</p> <p>* EFFICACY OVER TIME</p> <p>* SHIPPING CONDITIONS</p>	<p>* SOCIAL PERSPECTIVE</p> <p>BARRIERS TO ADOPTION</p> <ul style="list-style-type: none"> - NURSE / CLINICAL PRACTICE - TRAINING PROGRAMS - STUCK IN OLD WAYS - MOBILITY
Why should it be investigated?	<p>INTRA / INTER - PERSON</p> <p>PROCESS OPERATOR</p> <p>DECREASE DEFECTS</p> <p>INCREASE QUALITY</p> <p>↓ COST - PATIENT</p> <p>BENEFIT & LONGEVITY</p>	<p>DEVELOPMENT OF ALL THE REST OF SUPPLY CHAIN DEPENDS ON STABILITY AND ABILITY TO SHIP FOR 'X' HOURS AT 'X' TEMPERATURE</p>	<p>PERFECT PRODUCT IN THE WRONG HANDS IS USELESS. HAVE TO ENSURE CORRECT USE.</p>
How should it be investigated?	<p>STANDARDISATION & MEASUREMENT</p> <p>PROCESS CONTROL & QBD FOR AUTOMATION</p> <p>MAXIMIZE W/O AFFECT OUT COME</p>	<p>* META ANALYSIS OF EXISTING DATA</p> <p>HOME IN ON SPECIES FOR EACH CELL TYPE OR PRODUCT</p>	<p>* MEDICAL SCHOOLS</p> <p>* EXAMINE THE TEACHING PRACTICES</p> <p>* EXPAND THE EXPOSURE</p>
	<p>CASE STUDIES W/ EXEMPLARS</p> <p>CENTRE STUDIES / OPERATOR STUDIES</p> <p>↓</p> <p>QUANTIFY EXTENT</p> <p>IDENTIFY SOURCES</p> <p>NARROW DOWN</p> <p>DEVELOP AREAS OF</p>		

Stage 5 – Feasibility study ideas

GROUP NAME: E

From an analysis of the discussion at Stage 4, propose how the most promising top three ideas might be taken forward

	Feasibility Study Idea #1	Feasibility Study Idea #2	Feasibility Study Idea #3
What should be investigated?	IDENTIFY RDM SOLUTION SPACE TO REGULATORY + POLICY ENV'T	ADAPTIVE MFG TO CLOSED LOOP TREATMENT MODELS	NEW QA MODULES FOR RDM
Why should it be investigated?	IDENTIFY ATTRACTIVE & VIABLE RDM PRODUCTS	EXPLOIT PATIENT DATA TO OPTIMISE RDM MFG.	- REGULATORY NEED - BATCH → PROCESS CENTRIC QA - FLEXIBLE PRODUCTS (PRODUCT DIFFERENTIATION)
How should it be investigated?	c. <u>1</u> YEAR FEASIBILITY PROJECT TO GENERATE RESEARCH / WHITE PAPERS FOR GOVT (HMIP?) INDUSTRY RESEARCH COUNCILS	- EXISTING RESEARCH IN: - ADAPTIVE MFG - CLOSED LOOP MFG - RECONFIGURABLE NETWORKS → APPLIES TO THE RDM CASE. → RESEARCH PAPER	→ POSITION PAPER FOR INDUSTRY / PRIORITIZATION GOVT MARA (e.g. HMIP) → TRAIL B. PROJECT?