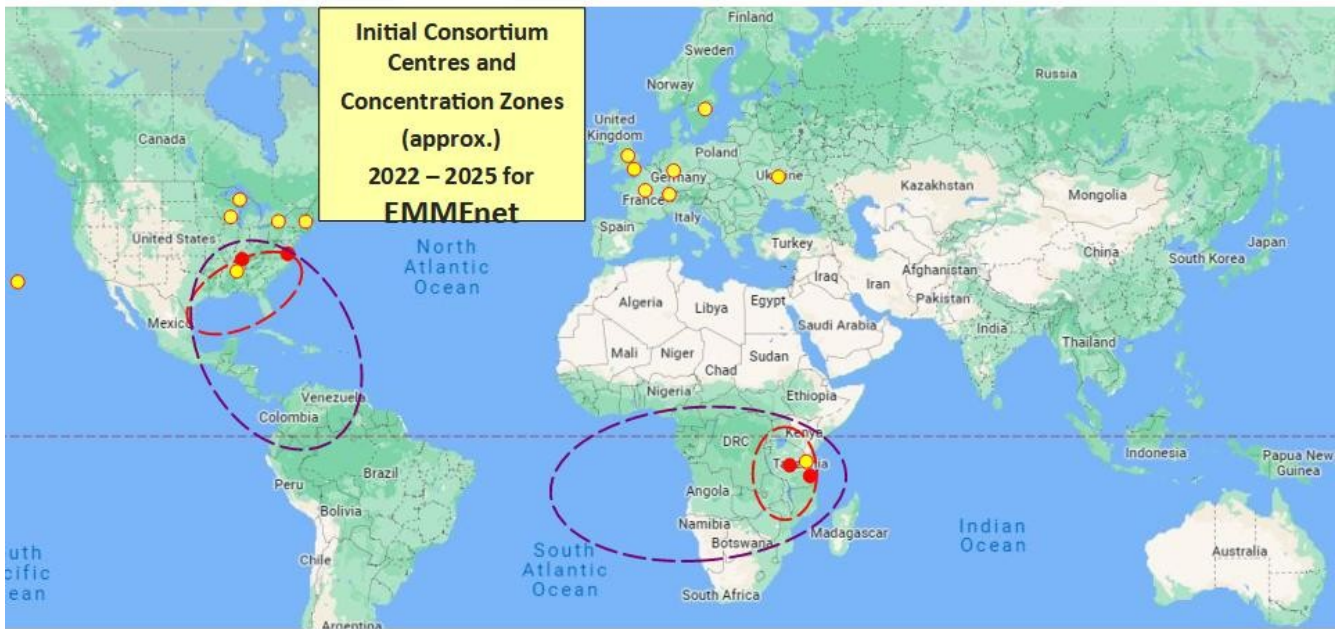
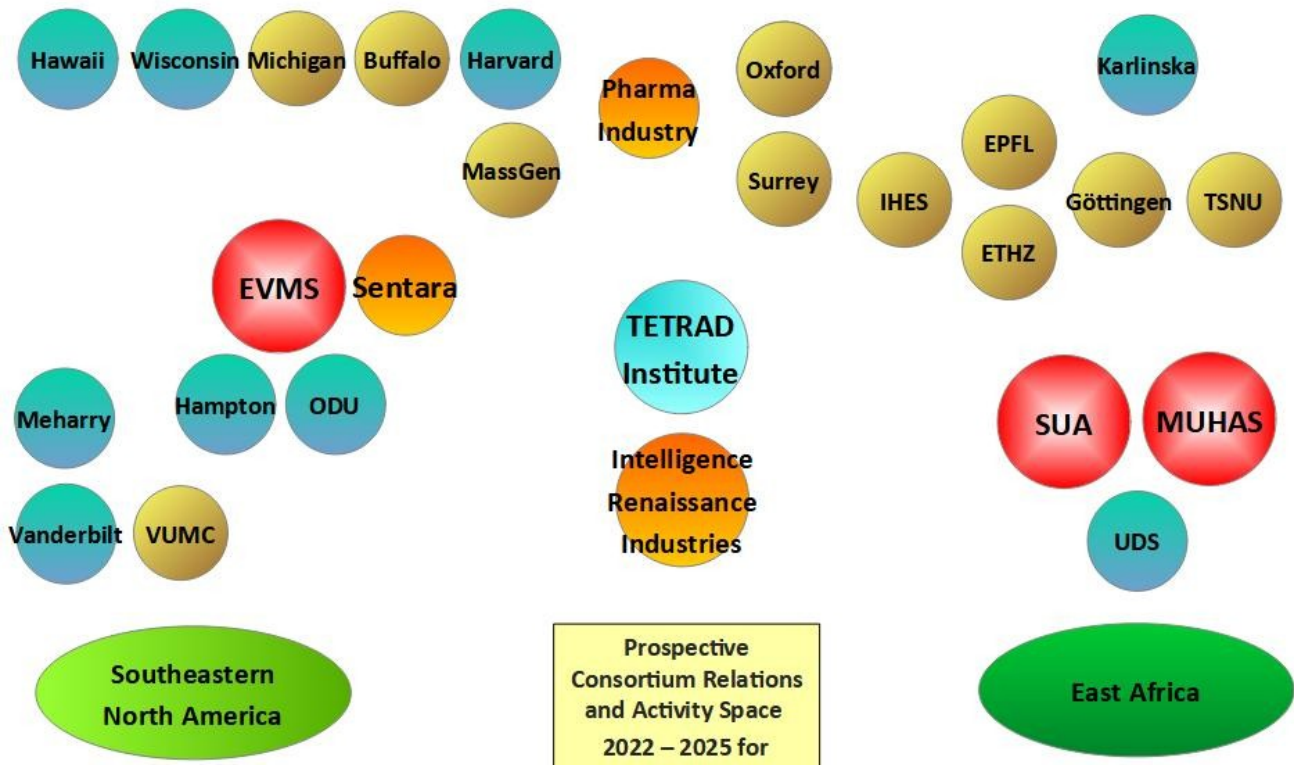


**EMME (EMMEnet) --- Ten Simple Graphics to Illustrate the main STEM and Project Scope**

Friday 12.aug.22 (mjd)

These are intended as accompaniments to previous text-mainly documents and papers.





Target Regions in TX, LA, MS, AL, GA, FL principally, expanding to neighboring states and Caribbean countries

Prospective Consortium Relations and Activity Space 2022 – 2025 for EMMEnet

Target Regions in Great Lakes Region within Tanzania, Kenya principally, expanding to neighboring countries and later to West Africa and beyond

**Synthetic Intelligence Communities  
operating in  
Social Computing and Communication Networks  
and producing Predictive Knowledge  
for use in  
Public Health and Social Sustainability**

**Seldon – the Prediction Engine**

**OASIS – Open Autopoietic Social Intelligence Synthesis (architecture, framework)**

**Oasis Terra – an OASIS-powered internet environment (“world”)**

**PHIBER - Population Health Informatics Biomedical Equity (resource domain)**

**Martin Dudziak, PhD  
TETRAD Institute of Complex System Dynamics**

April.2022

**EMMEnet**  
incorporates  
**Seldon SI (synthetic intelligence)**

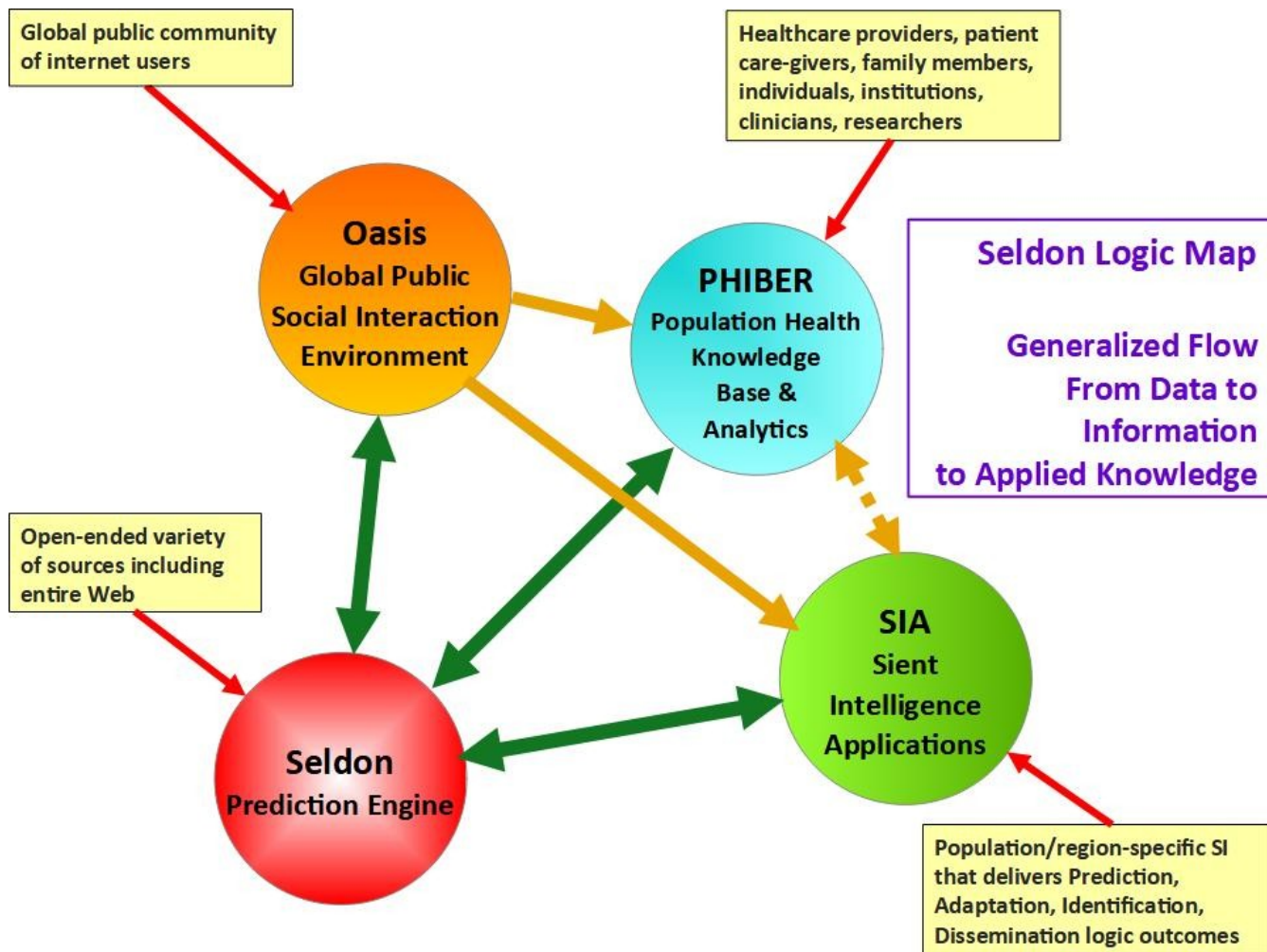
**Four Principles of  
Computer Science, Abductive Reasoning and System Application**

**PAIR – Parallel Asynchronous Iterative Recursive**

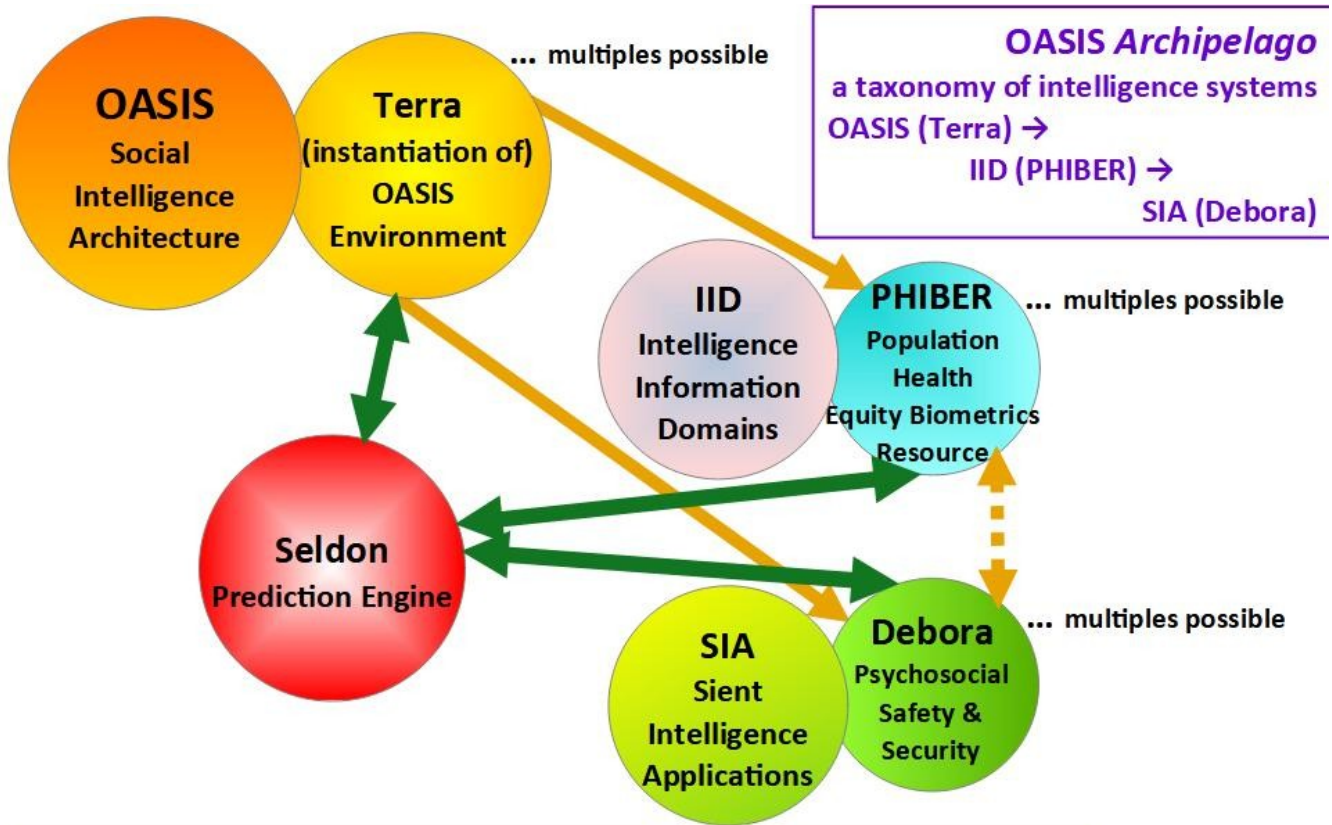
**HOMS – Hypothesize Observe Model Simulate**

**EVEM – Experiment Verify Evaluate Modify**

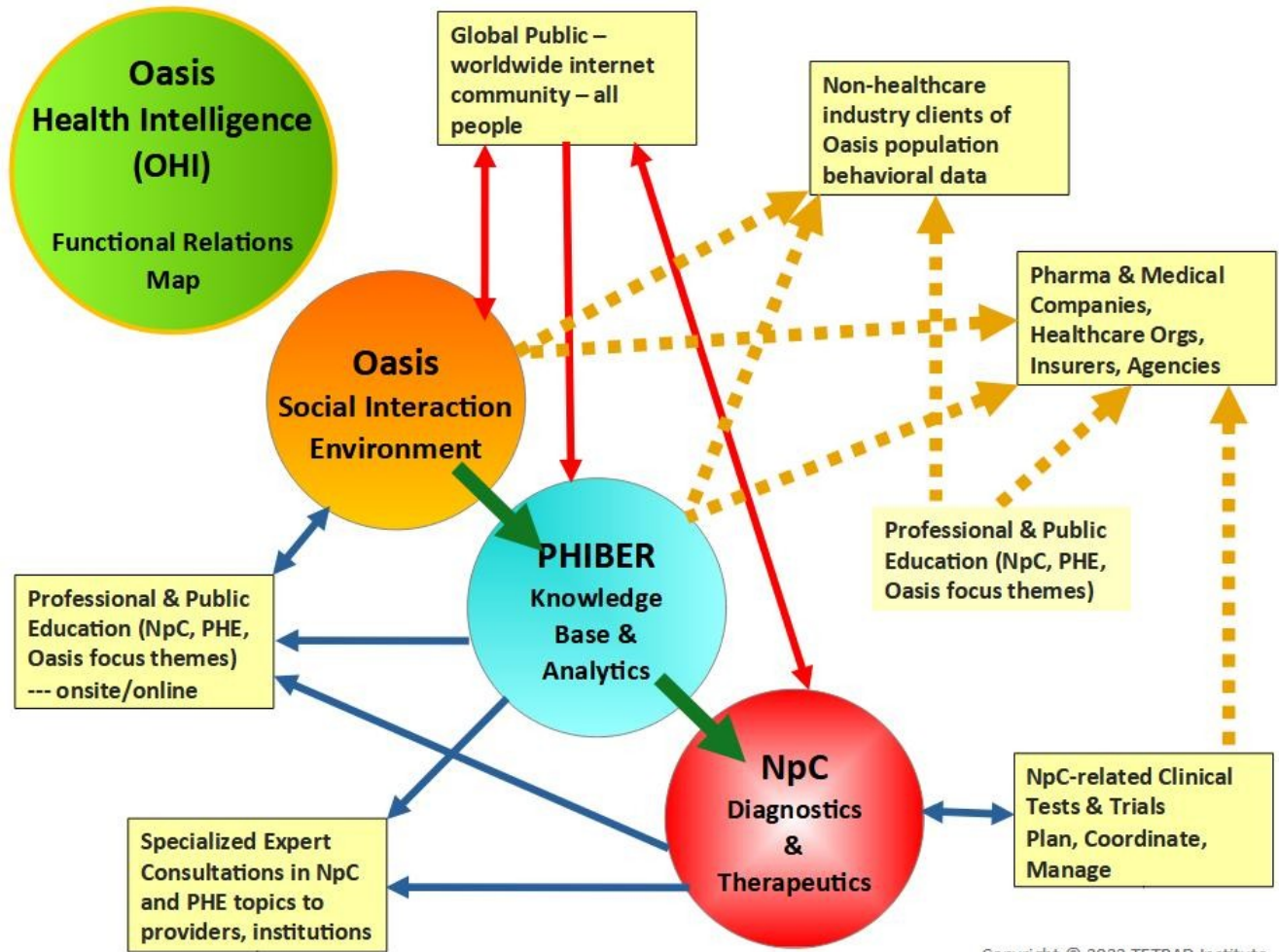
**PAID – Predict Adapt Identify Disseminate**



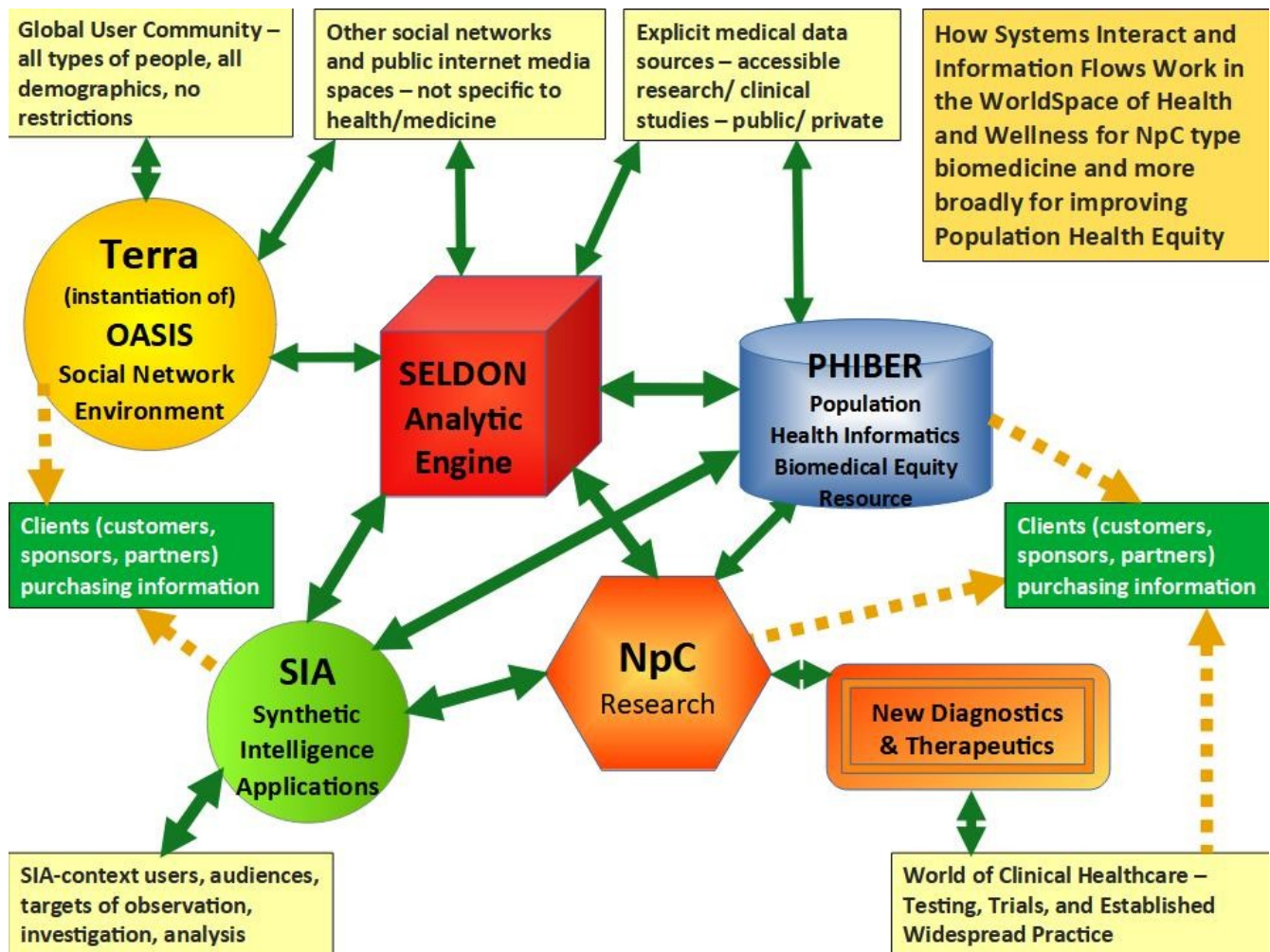




Based upon and built from OASIS core components, each Oasis World (e.g., Terra) provides the matrix for personal and interpersonal dataflow. This contributes (with many other data streams) to an IID (e.g., PHIBER) which has a domain focus (e.g., health). Together these work and work with SIA systems – applications such as Debora, each of which has a focus on a population type and specific attributes and their predictive (future-possible-likely) values.







Social interaction framework  
 (similar to Wordpress, FB, Twitter,  
 LinkedIn, Tiktok, Baidu, generic  
 CMS) ----  
 "Four dimensions" of UEX :  
 Linear (basic: text, shared media)  
 2D (graphiucal)  
 3D (navigable)  
 4D (true AR – mixed RW + VW  
 navigable spaces)\_



Oasis World architecture:  
 Function Modules  
 (Core CMS Environment with  
 plug-ins and interfaces)

- Communicating Dynamical Processes (CDP ← CSP)
- Network Computing
- Cloud and Mobile Services



**OASIS**  
Autopoietic  
Social Intelligence  
Synthesis  
(logic architecture)

TI → IRI → open-use by world

**Terra**  
(social world  
instantiation of)  
OASIS

IRI → licensable to others

**Seldon**  
Analytic  
Engine

TI + IRI → licensable to others

**PHIBER**  
Knowledge  
System

TI + IRI → data contracts to others

**SIA**  
Synthetic  
Intelligence  
Applications

TI + IRI → data contracts to others

**Who Builds What**  
In the world of  
OASIS  
Oasis Worlds like Terra  
Seldon Engine  
PHIBER and other IID  
Domain-specific SIA  
+ the medical world of NpC

Note that "TI+IRI" composite  
Includes formal project  
consortium members and  
partners

**NpC "+"**  
Research

TI + IRI  
→  
products/licenses to others