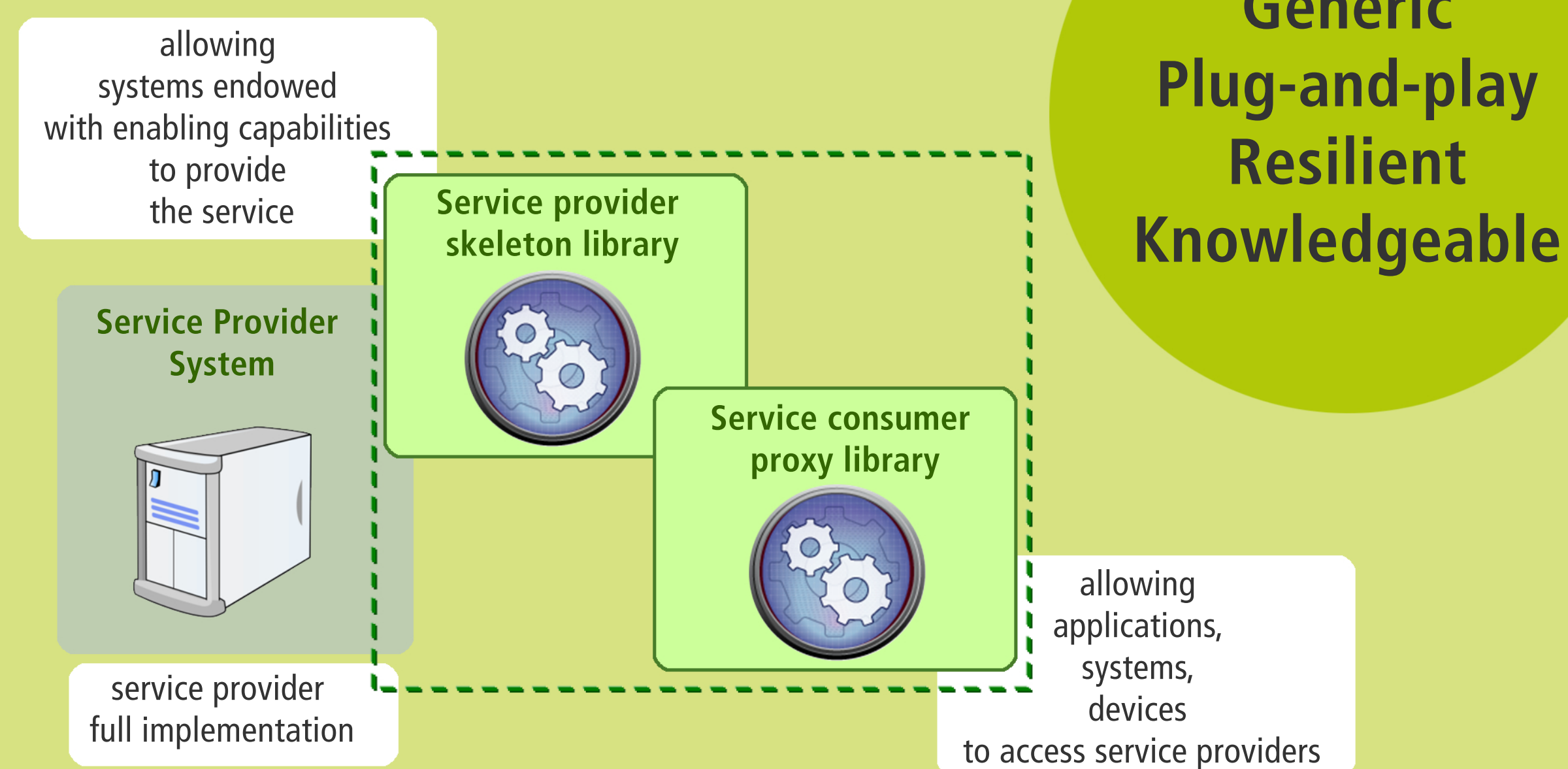


Steps towards an industrial implementation of **HSSP Standards**: A plug-and-play **Service Architecture Framework** of SOA service components for second generation **e-Health**

HealthSOAF Service bricks



Health Record Module (HRM) handling distributed patient records and data (profile, medications, clinical history, ...)

Full RLUS implementation: Management & Query Interface + Meta Data Interface
hData Content Profile (HCP) + hData Document Profile (HDP)

Health Terminology Module (HTM) managing clinical and healthcare terminology and coding

CTS 2 READ and QUERY profiles on Code Systems, Code System Versions, Entities and Value sets

Terminologies: national encoding of Italian municipalities and districts (provinces and regions), **ICD9** and **ICD10** encoding of diseases

Health Knowledge Module (HKM) searching, inquiring and executing healthcare decision-aid modules

HSSP Simple Evaluation DSS Conformance Profile v.1.0 EVALUATE
Knowledge Modules & DSS satisfying **HSSP Minimum DSS Semantic Profile v.1.0**

Health Directory Module (HDM) managing a directory of information relating to organizations and individuals that provide services in the areas of Healthcare, Aged Care and Community Care

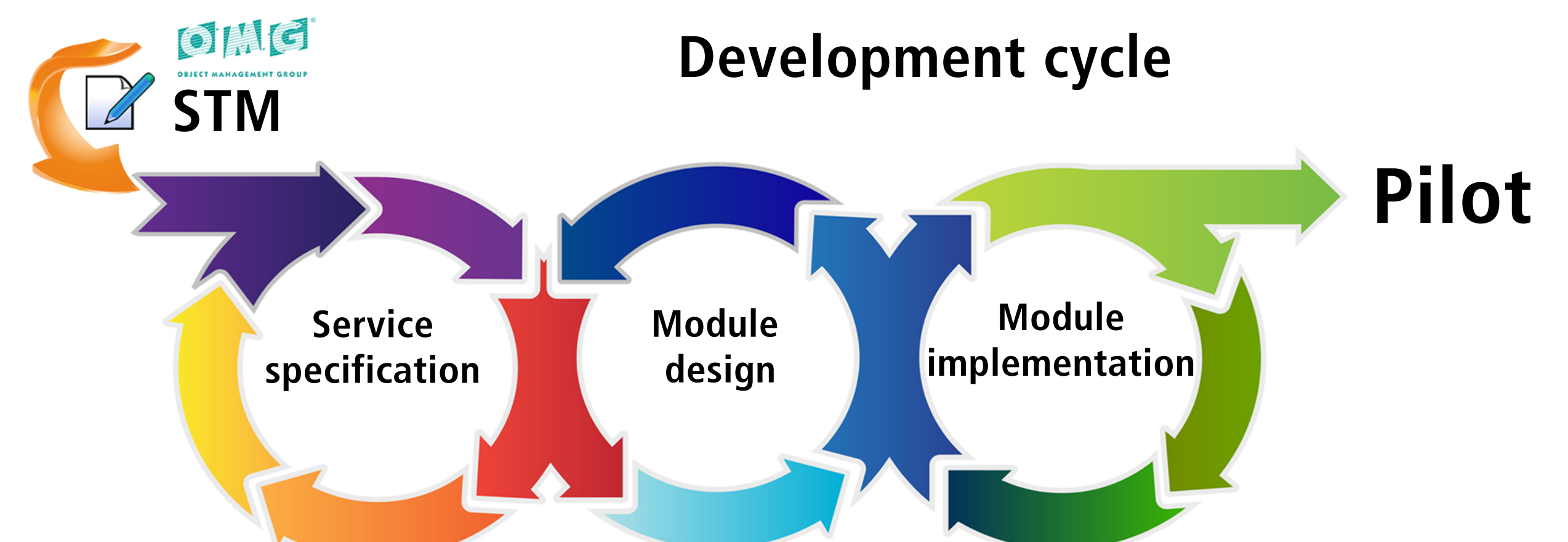
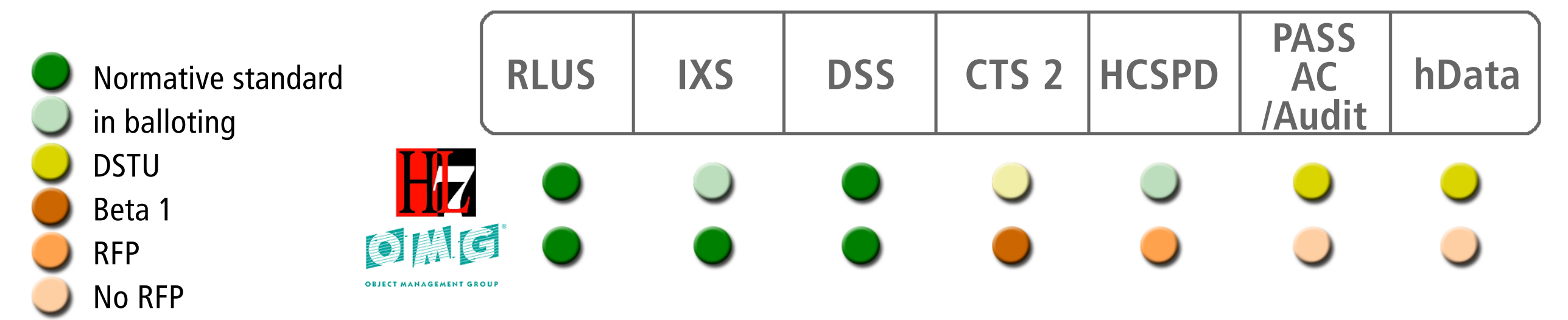
ServD Core: SEARCH & RETRIEVE DETAILS of Organizations, Sites, Service Sites e Providers + **ServD LOCATOR**

Health Privacy Module (HPM) providing Access Control services to protected resources in a distributed healthcare environment and handling the recording and maintenance of service events from other services

Access Control System conform to **OASIS XACML 2.0**
OASIS SAML 2.0 profile of XACML 2.0 + **XSPA** profile of XACML 2.0

Health Identity Module (HIM) uniquely identifying various kinds of entities (e.g. people, patients, providers, devices and so on) within disparate systems within a single enterprise and/or across a set of collaborating enterprises

IXS Management & Query Interface +
IXS Admin Editor Interface



PIM & interoperability PSM
specification by
reverse modeling

> Service brick design
> Test framework design

> Software components development
> Test framework development
> Service compliance testing

Contract-based, model-driven (CBMD) service orientation

OMG SoaML notation,
simpleSOAD® methodology by Simple Engineering

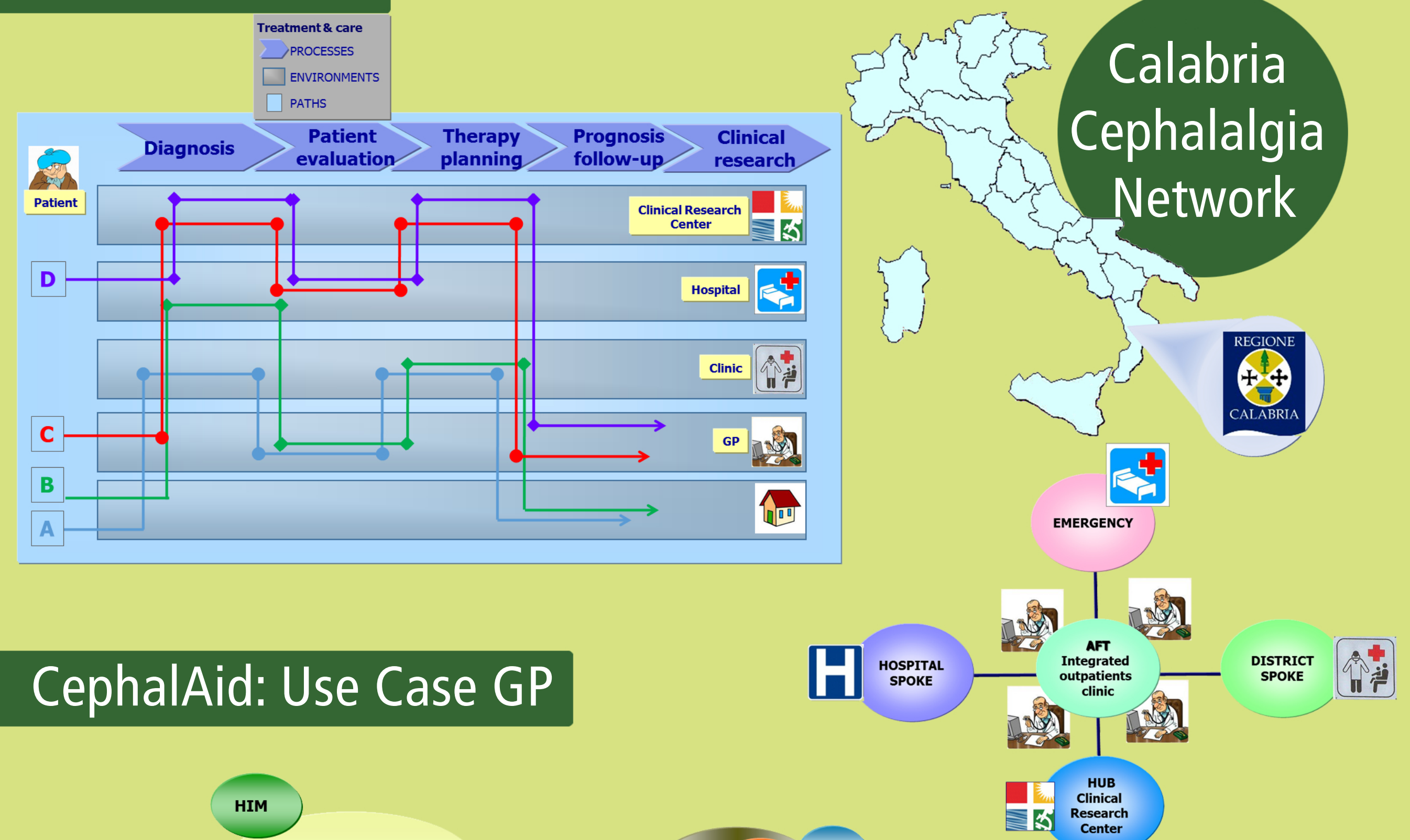
Model-based automated testing

Simple Engineering testing framework TCCN4SOA™,
a TCCN-3 generic framework (library) that helps to build
SOA automated testing

Pilot: CephalAid

Integrated clinical management process
of cephalalgic and migraine patients

Clinic Scenario



CephalAid: Use Case GP

