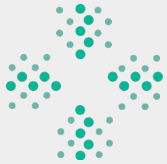


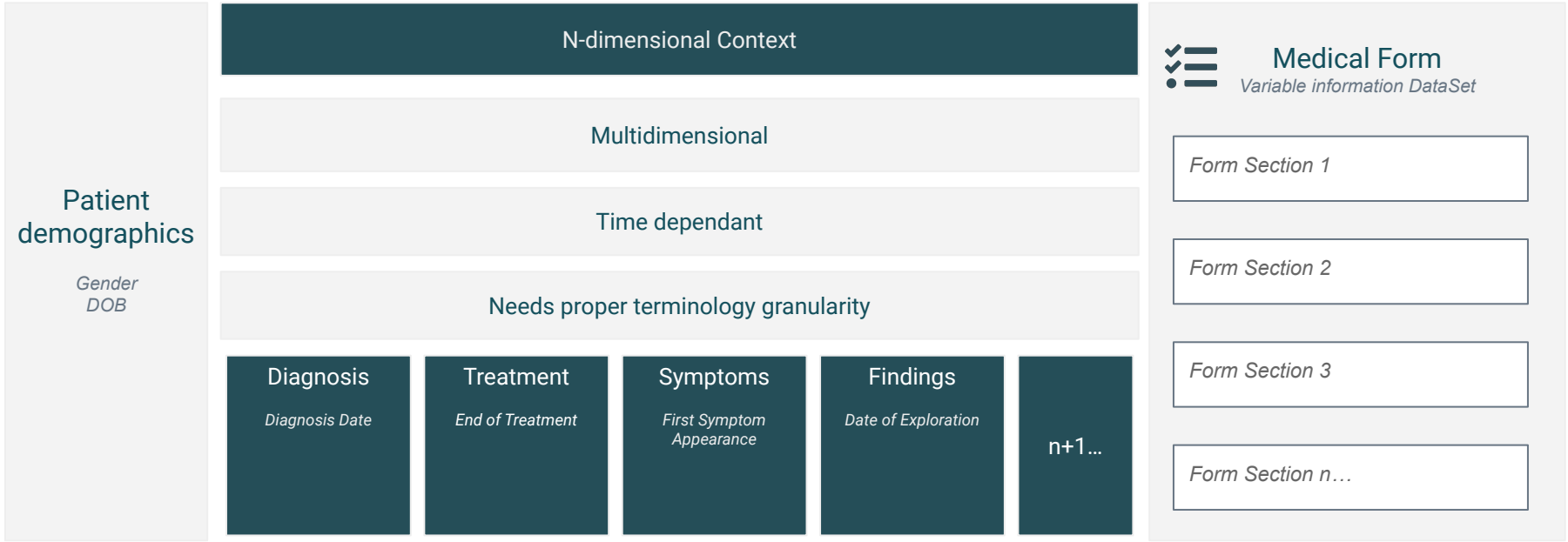
# medoms

The Open Health Application Platform

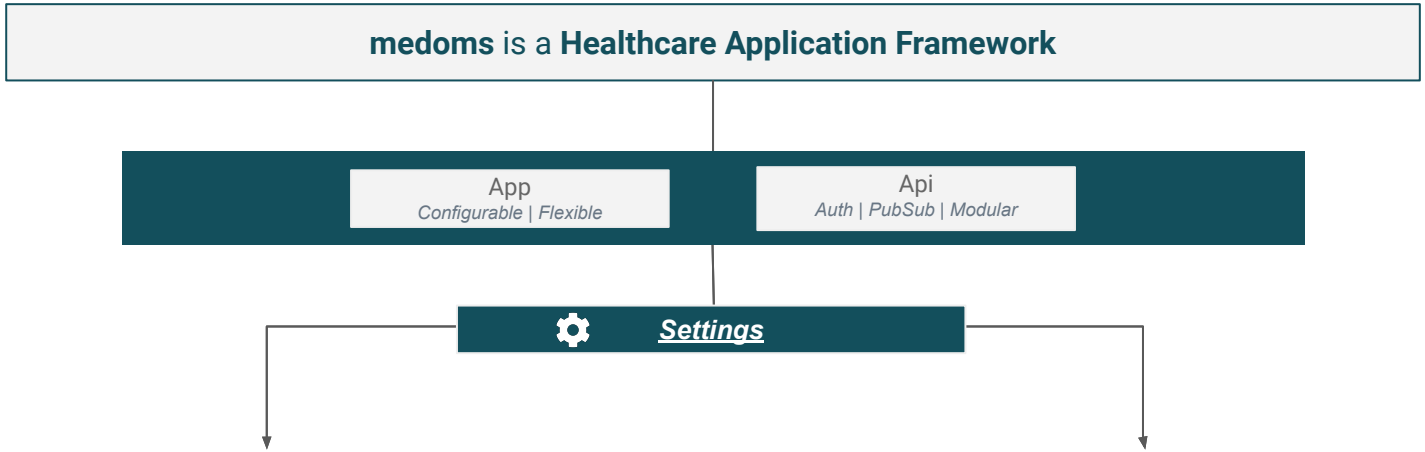
# Medoms App Platform: Forms with **semantics** attached

Forms have **CONTEXT**.

*This context enables **automation** and **logic***



# What is Medoms I: The Open Health App Platform




Solution for Clinical Research Organizations

CTM
Clinical Trial management System

CQORs
Quality Outcomes Registry System

PRS
Patient Disease Registry

***EMR Addendum for*** Clinical Facilities

ePRO
Patient Reported Outcomes

EDC
Electronic Data Capture

EAM
Electronic Anamnesis Management

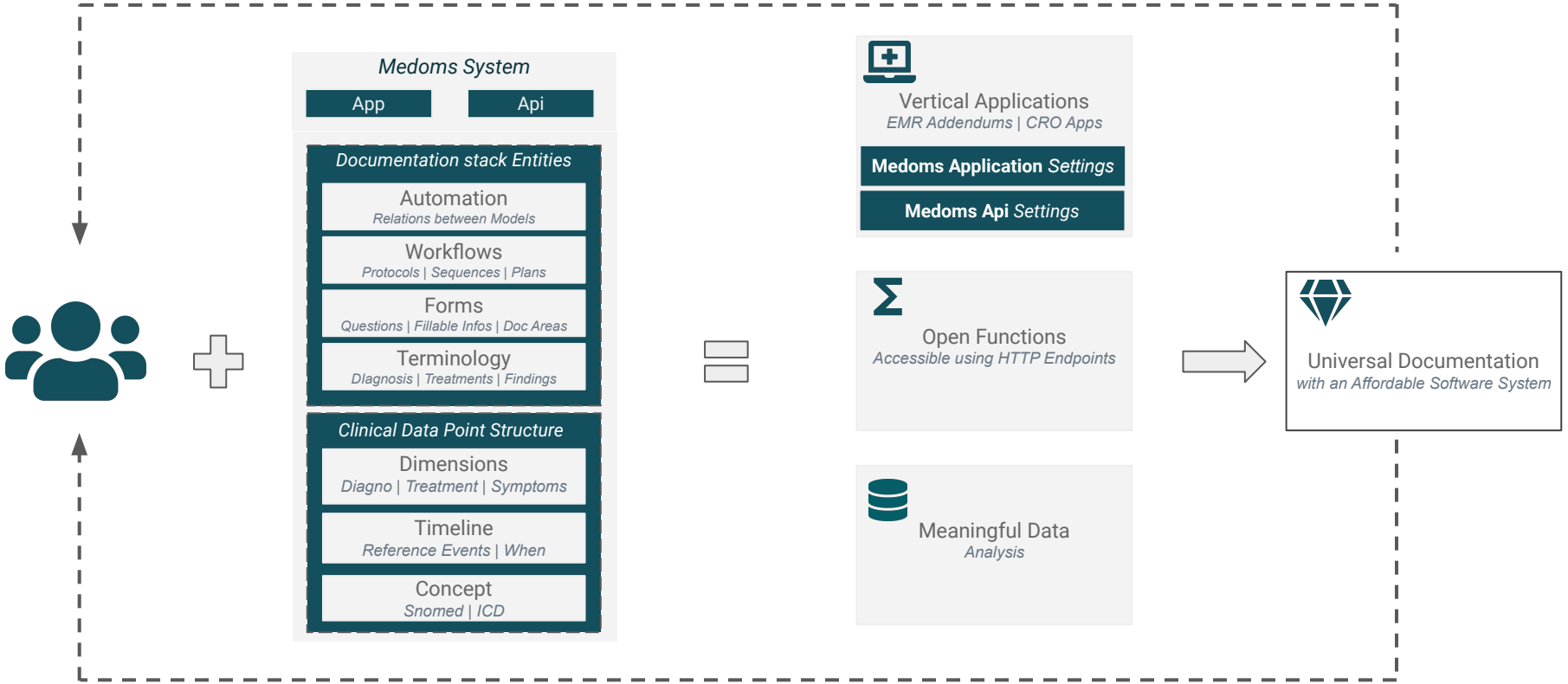
HQAM
Health Quality Assurance Measures

# What is Medoms II: The Open Health App Platform

We **standardize** every aspect of clinical documentation

*User Interface,Documentation Info Areas, Reporting, Analytics*

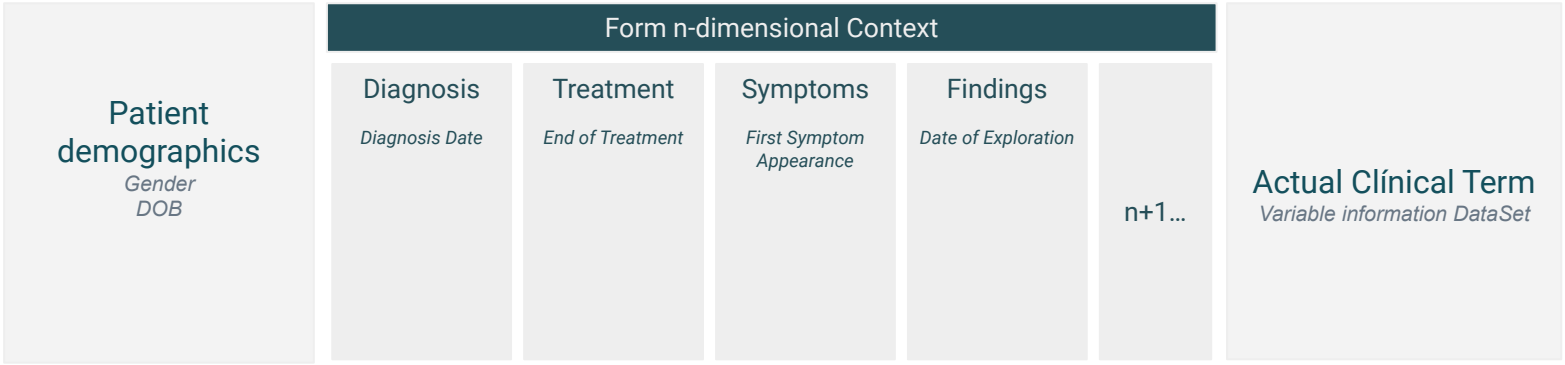
openEHR ICHOM



# Medoms Clinical Data Points Structure: Meaningful comprehensive data

Clinical data points require **CONTEXT**.

*Medoms captures the context attached through its forms*




| | | | | | | |
|---|---|---|---|---|---|---|
| *386714003 - Right Eye Uncorrected Distance Visual Acuity : **0.1 (almost blind)*** | *386714003 - 0.1* | = | *386714003 - 0.1* | *386714003 - Right Eye Uncorrected Distance Visual Acuity : **0.1 (almost blind)*** | | |
| *Female 54 Years Old* | *H40.1 Open-angle glaucoma 1 Month Before* | *386714003 - 0.1* | ≠ | *386714003 - 0.1* | *414582004 Laser assisted subepithelial keratomileusis 1 Day Before* | *Male 32 Years Old* |

# Medoms Documentation Stack Entities I: What,When & How through *business Objects/Entities*

Medoms **standardizes data input** according to international guidelines

***Protocols, Forms & Terminology*** *by Medical Colleges, Academies,etc*

| **What** information is needed? | **When** is it required? | **How** should it be introduced? |
|---|---|---|
| Standard Forms | Protocols & Automation | International Terminology Datasets |
| - *Patient Encounter:* WHO EMERGENCY UNIT FORM<br>- *Quality Of Life:* WHOQOL<br>- *Proms:* CATQUEST | - *Pregnancy 20-week perinatal loss:* PROOF-OF-LIFE<br>- *Cataract surgery:* ICHOM<br>- *Psychology:*CPG SUICIDAL PREVENTION | - *Diagnosis:* ICD<br>- *Procedures:* CPT<br>- *Terminology:*SNOMED |

** samples with only presentation purposes*

# Medoms Documentation Stack Entities II: Actual Collaborativeness & Community

*Data modularization and access through API:* allows the **community acquired expertise** to be easily leveraged

## Forms

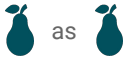
- *Default forms for each documentation step.*
- *Open to extension according to custom information requirements.*
- *Composed by sections in order to improve shareability.*
- *Embeddable semantics and dimension data*

Catquest 9 SF | Navq | ModType | SLUMS | WHO 5 | phq9 *

## Terms

- *Feeded through standard terminology sets*
- *All items have shared semantics for logic and automation*

Psychiatry 394587001( SnomedCT Id ) *




## Workflows

- *Default steps for each treatment/pathology.*
- *Custom flows can be made and shared to other users.*
- *Protocols, series and complex logic implementable*

PROOF OF LIFE PREGNANCY Test | Cataract ICHOM *

## Logic/Automation

- *Default forms depending on patient information.*
- *Complex workflows, tracker policies… also shareable*

Default form for Postop Multifocal IOL Sx: Catquest 9SF *

* Sample purpose

# Medoms in the Clinical Environment: Where does it fit?

*Medoms gives a chance for commoditizing also the application layer*

**EMR - HIS -EHR**

*Main system documenting the patient encounter*

*Patient*

MEDOMS *shared logic & functionality - vendor neutral*

openEHR

Archetypes

ICHOM

Protocols

n-dimensional Clinical Data Points

*FHIR Server: already offered by multiple providers*

aws

* Sample purpose

# Medoms in the Clinical Environment: Why does it fit?

*FHIR Resource Spec*

```
{
  "resourceType" : "ActivityDefinition",
  // from Resource: id, meta, implicitRules, and language
  // from DomainResource: text, contained, extension, and modifierExtension
  "url" : "<uri>", // Canonical identifier for this activity definition, represented as a URI (g
lobally unique)
  "identifier" : [{ Identifier }], // Additional identifier for the activity definition
  "version" : "<string>", // Business version of the activity definition
  "name" : "<string>", // C? Name for this activity definition (computer friendly)
  "title" : "<string>", // Name for this activity definition (human friendly)
  "subtitle" : "<string>", // Subordinate title of the activity definition
  "status" : "<code>", // R!  draft | active | retired | unknown
  "experimental" : <boolean>, // For testing purposes, not real usage
  // subject[x]: Type of individual the activity definition is intended for. One of these 2:
  "subjectCodeableConcept" : { CodeableConcept },
  "subjectReference" : { Reference(Group) },
  "date" : "<dateTime>", // Date last changed
  "publisher" : "<string>", // Name of the publisher (organization or individual)
  "contact" : [{ ContactDetail }], // Contact details for the publisher
  "description" : "<markdown>", // Natural language description of the activity definition
  "useContext" : [{ UsageContext }], // The context that the content is intended to support
  "jurisdiction" : [{ CodeableConcept }], // Intended jurisdiction for activity definition (if a
pplicable)
  "purpose" : "<markdown>", // Why this activity definition is defined
  "usage" : "<string>", // Describes the clinical usage of the activity definition
  "copyright" : "<markdown>", // Use and/or publishing restrictions
  "approvalDate" : "<date>", // When the activity definition was approved by publisher
  "lastReviewDate" : "<date>", // When the activity definition was last reviewed
  "effectivePeriod" : { Period }, // When the activity definition is expected to be used
  "topic" : [{ CodeableConcept }], // E.g. Education, Treatment, Assessment, etc.
  "author" : [{ ContactDetail }], // Who authored the content
  "editor" : [{ ContactDetail }], // Who edited the content
  "reviewer" : [{ ContactDetail }], // Who reviewed the content
  "endorser" : [{ ContactDetail }], // Who endorsed the content
  "relatedArtifact" : [{ RelatedArtifact }], // Additional documentation, citations, etc.
  "library" : [{ canonical(Library) }], // Logic used by the activity definition
  "kind" : "<code>", // Kind of resource
  "profile" : { canonical(StructureDefinition) }, // What profile the resource needs to conform
to
  "code" : { CodeableConcept }, // Detail type of activity
  "intent" : "<code>", // proposal | plan | directive | order | original-order | reflex-order |
filler-order | instance-order | option
  "priority" : "<code>", // routine | urgent | asap | stat
  "doNotPerform" : <boolean>, // True if the activity should not be performed
  // timing[x]: When activity is to occur. One of these 6:
  "timingTiming" : { Timing },
  "timingDateTime" : "<dateTime>",
  "timingAge" : { Age },
  "timingPeriod" : { Period },
  "timingRange" : { Range },
  "timingDuration" : { Duration },
  "location" : { Reference(Location) }, // Where it should happen
  "participant" : [{ // Who should participate in the action
    "type" : "<code>", // R!  patient | practitioner | related-person | device
    "role" : { CodeableConcept } // E.g. Nurse, Surgeon, Parent, etc.
  }],
  // product[x]: What's administered/supplied. One of these 2:
  "productReference" : { Reference(Medication|Substance) },
  "productCodeableConcept" : { CodeableConcept },
  "quantity" : { Quantity(SimpleQuantity) }, // How much is administered/consumed/supplied
  "dosage" : [{ Dosage }], // Detailed dosage instructions
  "bodySite" : [{ CodeableConcept }], // What part of body to perform on
  "specimenRequirement" : [{ Reference(SpecimenDefinition) }], // What specimens are required to
perform this action
  "observationRequirement" : [{ Reference(ObservationDefinition) }], // What observations are re
quired to perform this action
  "observationResultRequirement" : [{ Reference(ObservationDefinition) }], // What observations
must be produced by this action
  "transform" : { canonical(StructureMap) }, // Transform to apply the template
  "dynamicValue" : [{ // Dynamic aspects of the definition
    "path" : "<string>", // R!  The path to the element to be set dynamically
    "expression" : { Expression } // R!  An expression that provides the dynamic value for the c
ustomization
  }]
}
```

*Medoms Instance configuration is a simple editable JSON file*

```
{
  "userAdmin": {
    "app": [
      [
        {
          "componentId": "formBaseAggInfoOutcomesChart",
          "componentLayout": {
            "lgSpan": 13,
            "mdSpan": 24,
            "smSpan": 24
          }
        },
        {
          "componentId": "userContrLastCreatedWithFormDefCollecOnFormDefCollecCodeList",
          "componentLayout": {
            "lgSpan": 11,
            "mdSpan": 24,
            "smSpan": 24
```

```
{
  "userAdmin": {
    "app": [
      [
        {
          "componentLayout": {
            "lgSpan": 24,
            "mdSpan": 24,
            "smSpan": 24
          },
          "entityName": "plugin",
          "intentCode": "newUserContrAndAssignedFormDefCollecSpecificWithMedoms",
          "componentId": "newUserContrAndAssignedFormDefCollecSpecificWithMedoms",
          "params": {
            "instanceContextData": {
              "sequenCode": "phacobook-workflow"
            }
          }
        }
      ]
    ]
  }
}
```

* Sample purpose

# Medoms Open App Platform Approach I: Medoms App

**Leverage existing UI Setups already developed by the community**

“One App” with simplified UI versions for easier adoption

Partial use of all the functionality

The app setup is grabbed from the medoms instance

Extensible through Open Source or Private development

# Medoms Open App Platform Approach II: Medoms Api

**Onboarding is easy, quick, flexible and unobtrusive to third party systems**

Every customer can own a medoms instance (installation) or share an existing one

HIPAA Compliant policies

Event subscription available for third party systems

Quick and easy installation setup for reduced costs and ensuring scalability

Modular installation according to actual needs

# Contact Us: info@medoms.com

https://www.medoms.com/contact/

https://www.linkedin.com/company/medoms

https://github.com/medoms

https://join.skype.com/invite/BLiAGYpllyUL