

```
<?xml version = "1.0" encoding = "UTF-8"?>
```

```
<xsd:schema xmlns="http://www.freshdecisions.org/decisions"
targetNamespace="http://www.freshdecisions.org/decisions"
xmlns:dec="http://www.freshdecisions.org/decisions"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:dc="http://purl.org/dc/elements/1.1/"
xmlns:atom="http://www.w3.org/2005/Atom"
xmlns:georss="http://www.georss.org/georss/11"
xmlns:gml="http://www.opengis.net/gml"
xmlns:xlink="http://www.w3.org/1999/xlink"
elementFormDefault="qualified"
attributeFormDefault="unqualified">
```

```
<xsd:import namespace="http://www.opengis.net/gml" schemaLocation="./gmlgeorss.xsd"/>
<xsd:import namespace="http://www.georss.org/georss/11" schemaLocation="./georss.xsd"/>
<xsd:import namespace="http://www.w3.org/1999/xlink" schemaLocation="./xlinks.xsd"/>
```

```
<xsd:element name="Decisions" type="DecisionsType"/>
```

```
<xsd:complexType name="DecisionsType">
<xsd:sequence>
<xsd:element name="Comment" type="xsd:string" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="Decision" minOccurs="0" maxOccurs="unbounded" type="DecisionType"/>
</xsd:sequence>
</xsd:complexType>
```

```
<xsd:complexType name="ValueListURIType">
```

```
<xsd:annotation>
```

```
<xsd:documentation xml:lang="en">
```

The ValueListURI concept, borrowed from OASIS's

ValueListURI, allows flexibility for organizations or communities to define their own lists of values and manage them externally. If enumerated lists were used (where the list of values is hard-coded into the schema), validation would be easier. The tradeoff in loss of easy validation is considered well worth the benefits of added flexibility (and often necessary flexibility) and tailoring allowed. Also validation is still possible, although more difficult, because the ValueListURI structure contains the unique name of

the list,

which could be a URL for easy lookup of list values to support a more sophisticated form of validation.

```
</xsd:documentation>
```

```
</xsd:annotation>
```

```
<xsd:sequence>
```

```
<xsd:element name="ListURI" type="xsd:anyURI"/>
```

```
<xsd:element name="Value" type="xsd:string" maxOccurs="unbounded"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

```
<xsd:complexType name="TripleType">
```

```
<xsd:sequence>
```

```
<xsd:element name="Subject" type="xsd:anyURI"/>
```

```
<xsd:element name="Verb" type="xsd:anyURI"/>
```

```
<xsd:element name="Object" type="xsd:anyURI"/>
```

```
</xsd:sequence>
```

```
</xsd:complexType>
```

```
<xsd:complexType name="PedigreeType">
```

```
<xsd:sequence>
  <xsd:element name="AssertedBy" type="EventInfoType" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

<xsd:complexType name="BasicStatementType">
  <xsd:sequence>
    <xsd:element name="Guid" type="xsd:anyURI" minOccurs="0"/>
    <xsd:element name="Title" type="xsd:string" minOccurs="0"/>
    <xsd:element name="Description" type="xsd:string" minOccurs="0"/>
    <xsd:element name="State" type="ValueListURIType" minOccurs="0"/>
    <xsd:element name="Link" type="xsd:anyURI" minOccurs="0"/>
    <xsd:element name="Triple" type="TripleType" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="StatementType">
  <xsd:complexContent>
    <xsd:extension base="BasicStatementType">
      <xsd:sequence>
        <xsd:element name="Pedigree" type="PedigreeType" minOccurs="0"/>
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:element name="Options">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="Option" minOccurs="0" maxOccurs="unbounded" type="OptionType"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:complexType name="DecisionType">
  <xsd:sequence>
    <xsd:element name="Guid" type="xsd:anyURI"/>
    <xsd:element ref="Question" minOccurs="0"/>
    <xsd:element ref="Answer" minOccurs="0"/>
    <xsd:element ref="Options" minOccurs="0" />
    <xsd:element ref="Metrics" minOccurs="0"/>
    <xsd:element name="Confidence" minOccurs="0" maxOccurs="1" type="ConfidenceType"/>
    <xsd:element ref="Subdecisions" minOccurs="0" maxOccurs="1" />
    <xsd:element ref="Notes" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="References" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="States" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="BasicInfo" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="Answers" type="AnswersType"/>

<xsd:complexType name="AnswersType">
  <xsd:sequence>
    <xsd:element ref="Answer" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

```

</xsd:sequence>
</xsd:complexType>

<xsd:element name="Answer" type="StatementType"/>

<xsd:element name="Questions" type="Questions Type"/>

<xsd:complexType name="QuestionsType">
  <xsd:sequence>
    <xsd:element ref="Question" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:element name="Question" type="StatementType"/>

<xsd:element name="Subdecisions" type="Decisions Type"/>

<xsd:element name="References">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="Reference" minOccurs="0" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Reference" type="StatementType"/>

<xsd:element name="Notes">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element ref="Note" minOccurs="0" maxOccurs="unbounded" />
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Note" type="StatementType"/>
<xsd:element name="BasicInfo" type="EventInfoType"/>

<xsd:element name="States">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element name="Guid" type="xsd:anyURI" minOccurs="0"/>
      <xsd:element name="States ValueList" type="xsd:anyURI" minOccurs="0">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            Default Decision StatesList URI could be:
            http://www.freshdecisions.org/ontologies/CDEP\_ver\_03.xml#DecisionStates.
            Values from this list might include: NotYetStarted, GatheringInfo, AnalyzingInfo, Deciding,
            ProducingDecisionProduct,
            CommunicatingDecision, ReceivingFeedback, Done
          </xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>

```

```
</xsd:sequence>
</xsd:complexType>
</xsd:element>

<xsd:element name="Metrics" type="MetricsType"/>

<xsd:element name="Metric" type="MetricType"/>

<xsd:element name="Guid" type="xsd:anyURI"/>

<xsd:complexType name="MetricsType">
  <xsd:sequence>
    <xsd:element ref="Guid" minOccurs="0"/>
    <xsd:element ref="Metric" minOccurs="1" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MetricType">
  <xsd:sequence>
    <xsd:element name="MetricValueList" minOccurs="0" type="xsd:anyURI"/>
    <xsd:element name="Value" minOccurs="0" type="xsd:token"/>
    <xsd:element name="Norm Value" minOccurs="0" type="xsd:float"/>
    <xsd:element name="Weight" minOccurs="0" type="xsd:float"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="OptionType">
  <xsd:sequence>
    <xsd:element name="Idea" type="StatementType"/>
    <xsd:element name="Selected" minOccurs="0" type="xsd:boolean"/>
    <xsd:element name="Pros" minOccurs="0" maxOccurs="1">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="Pro" minOccurs="0" maxOccurs="unbounded" type="ProConType"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="Cons" minOccurs="0" maxOccurs="1">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element name="Con" minOccurs="0" maxOccurs="unbounded" type="ProConType"/>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="DecisionStateType">
  <xsd:sequence>
    <xsd:element name="Value" type="xsd:token"/>
    <xsd:element name="Date" type="xsd:date Time"/>
  </xsd:sequence>
</xsd:complexType>
```

```
<xsd:element name="PopularityRating" type="PopularityRatingType"/>

<xsd:complexType name="PopularityRatingType">
  <xsd:sequence>
    <xsd:element name="Like" type="xsd:integer" default="0"/>
    <xsd:element name="Dislike" type="xsd:integer" default="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="ProConType">
  <xsd:complexContent>
    <xsd:extension base="StatementType">
      <xsd:sequence>
        <xsd:element name="Subdecisions" minOccurs="0" type="DecisionsType"/>
        <xsd:element ref="Metric" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              Metric is intended to be a selected value or values from a list of possible values
              for that particular metric. For example, if the metric is cost, then the possible values might be
              Free, Inexpensive, Reasonable, Expensive, VeryExpensive.
            </xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element ref="PopularityRating" minOccurs="0" />
      </xsd:sequence>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

<xsd:simpleType name="ConfidenceType">
  <xsd:restriction base="xsd:string">
    <xsd:enumeration value="Very High"/>
    <xsd:enumeration value="High"/>
    <xsd:enumeration value="Medium"/>
    <xsd:enumeration value="Low"/>
    <xsd:enumeration value="Very Low"/>
    <xsd:enumeration value="Unknown"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:complexType name="EventInfoType">
  <xsd:sequence>
    <xsd:element name="Guid" minOccurs="0" type="xsd:anyURI"/>
    <xsd:element name="Who" minOccurs="0" type="BasicStatementType"/>
    <xsd:element name="What" minOccurs="0" type="BasicStatementType"/>
    <xsd:element name="Where" minOccurs="0" type="georss:whereType" />
    <xsd:element name="When" minOccurs="0" type="xsd:dateTime"/>
    <xsd:element name="How" minOccurs="0" type="BasicStatementType"/>
    <xsd:element name="Why" minOccurs="0" type="BasicStatementType"/>
  </xsd:sequence>
</xsd:complexType>
```

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file:/C:/DecisionMaking/CDEP_4.0/CDEP_ver4.xsd

</xsd:schema>
