

```

<scenario>
<AnalysisScenario id="AS3">
  <Step id="1" name="features selection" supervisedBy="OEM">
    <Task id="1" name="internal and external temperatures
features selection with factor analysis" />
  </Step>
  <Step id="2" name="displacements prediction"
supervisedBy="OEM">
    <Task id="1" name="create dataset with internal
temperatures, external temperatures, displacements" />
    <Task id="2" name="train-test dataset split" />
    <Task id="3" name="regression coefficients calculation
with multiple linear regression analysis (MLRA)" />
    <Task id="4" name="calculation of predicted displacements"
/>
  </Step>
  <Step id="3" name="comparison of predicted vs real
displacements" supervisedBy="OEM">
    <Task id="1" name="calculation of pearson correlation" />
    <Task id="2" name="calculation of mean root squared
error" />
  </Step>
</AnalysisScenario>
</scenario>

```

Consider the definitions (between <definitions> </definitions>) of step and task as well as of inclusion, extension and specialisation between pairs of analysis scenarios.

<definitions>

An analysis scenario is composed of steps and each step is accomplished through a series of tasks. You can think of a step as a macro-group of affine tasks.

Specialisation relationship between scenarios: indicates that a scenario adds several steps/tasks with respect to another scenario.

Extension relationship between scenarios: to emphasise that a scenario presents a list of steps/tasks that is a variation of the steps/tasks of another scenario.

Inclusion relationship between scenarios: indicates that a scenario is included in other scenarios by specifying that the steps/tasks within one scenario are inclusive of the steps/tasks in other ones.

</definitions>

Based on the definitions between <definitions> </definitions>, and the analysis scenarios provided in the uploaded files, suggest me

analysis scenarios that include the one delimited by
<scenario></scenario> according to the definition of "inclusion"
relationship.

If you are not able to answer say "I don't know". For each
suggested scenario, print its steps (between <steps></steps>) and
tasks (between <tasks></tasks>).

```
<scenario>
  <AnalysisScenario id="PredictiveMaintenance">
    <Step id="1" name="Data Collection">
      <!-- Tasks for data collection -->
    </Step>
    <Step id="2" name="Data Preparation">
      <!-- Tasks for data preparation -->
    </Step>
    <Step id="3" name="Feature Engineering">
      <!-- Tasks for feature engineering -->
    </Step>
    <!-- Steps and tasks from AS3 scenario with temperature
set to 0 -->
    <Step id="1" name="features selection" supervisedBy="OEM">
      <Task id="1" name="internal and external temperatures
features selection with factor analysis" />
      <!-- Set temperature to 0 -->
    </Step>
    <Step id="2" name="displacements prediction"
supervisedBy="OEM">
      <Task id="1" name="create dataset with internal
temperatures, external temperatures, displacements" />
      <Task id="2" name="train-test dataset split" />
      <Task id="3" name="regression coefficients calculation
with multiple linear regression analysis (MLRA)" />
      <Task id="4" name="calculation of predicted
displacements" />
    </Step>
    <Step id="3" name="comparison of predicted vs real
displacements" supervisedBy="OEM">
      <Task id="1" name="calculation of pearson correlation"
/>
      <Task id="2" name="calculation of mean root squared
error" />
    </Step>
    <Step id="4" name="Model Training">
      <!-- Tasks for model training -->
    </Step>
  </AnalysisScenario>
</scenario>
```

