



MALAYSIA PRODUCTIVITY CORPORATION

DRIVING PRODUCTIVITY
OF THE NATION

**E&E TECHNOLOGY ADOPTION MENTORING (EETAM)
MENTORING MODULE 3**

6th November 2020

Reviewed and approved

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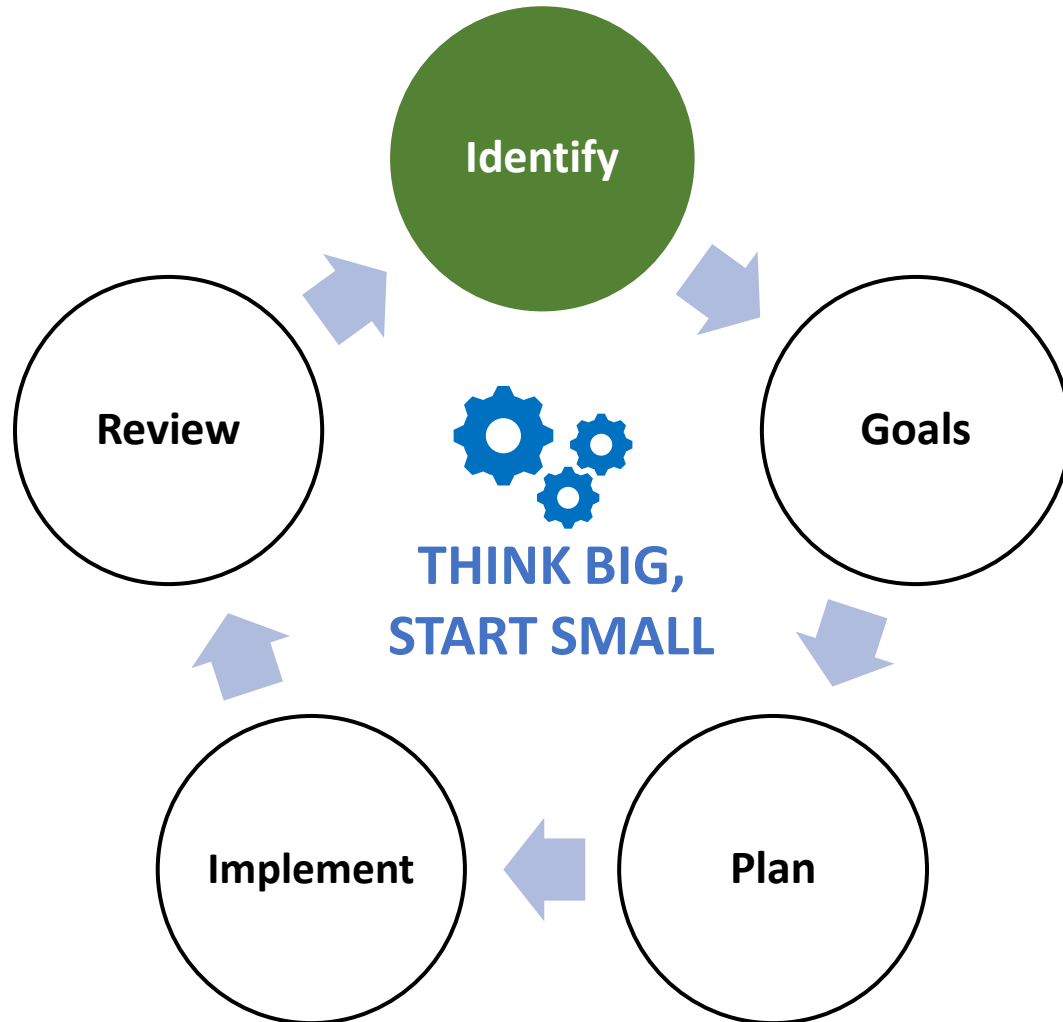
EETAM Mentoring Module 3

Staged approach of Implementation Methodology



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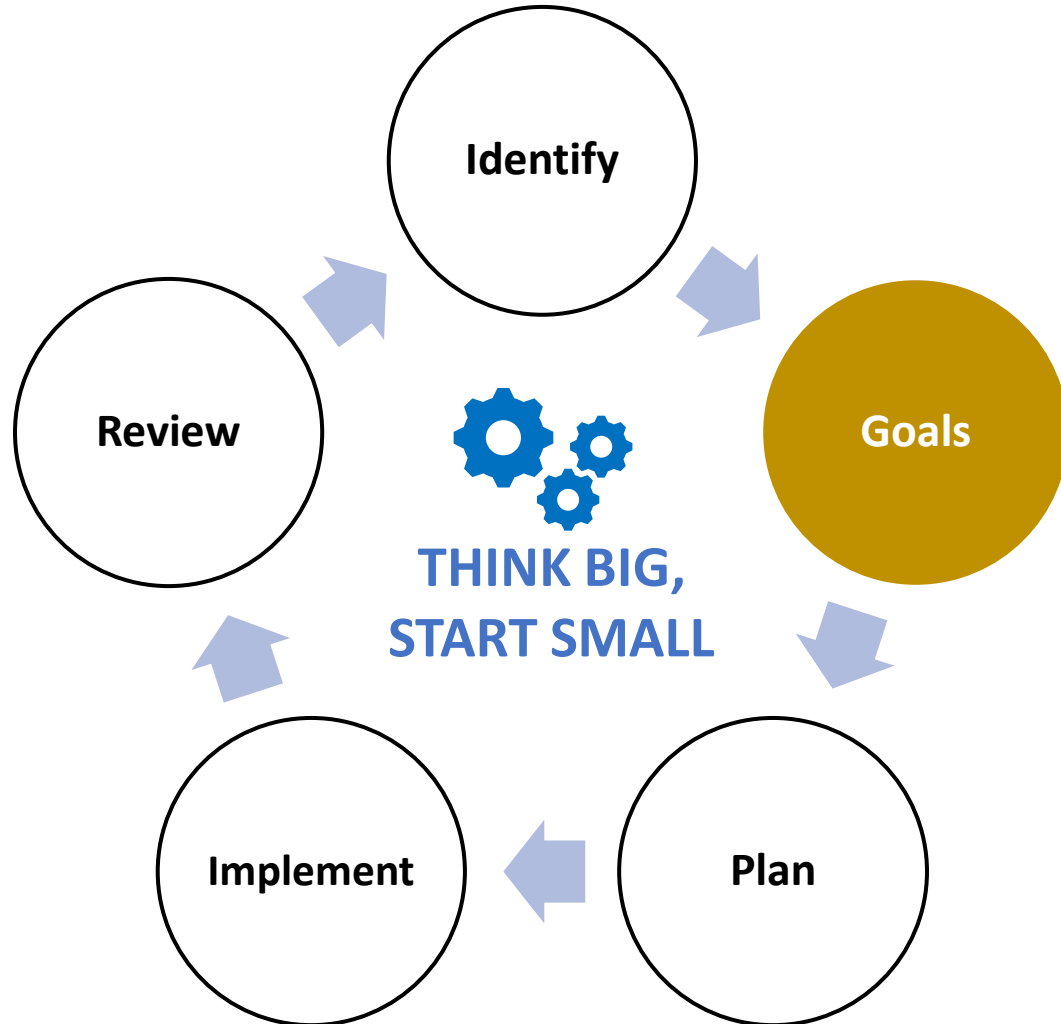


5L principles for Pilot Project :

- Low Hanging Fruit
- Low Risk
- Low Difficulty
- Low Budget
- Low Project Duration

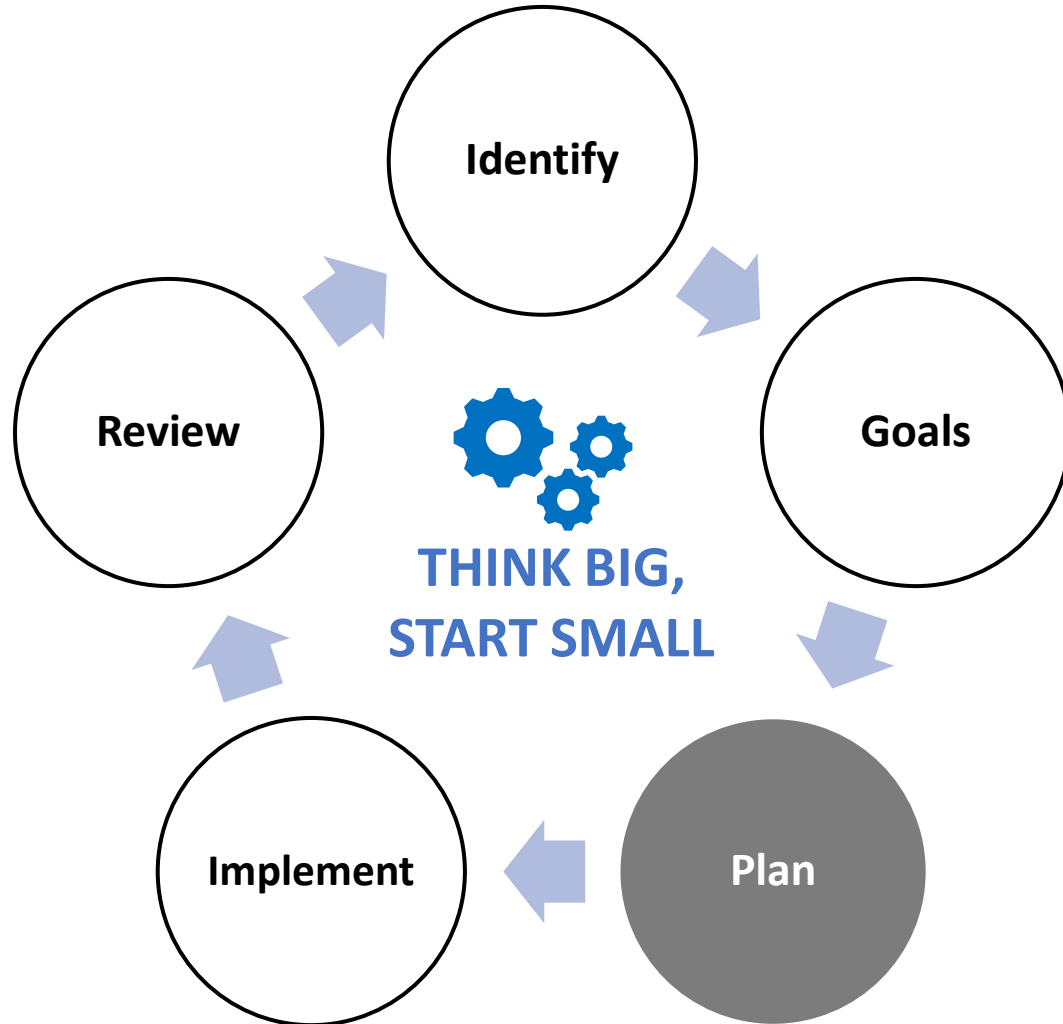
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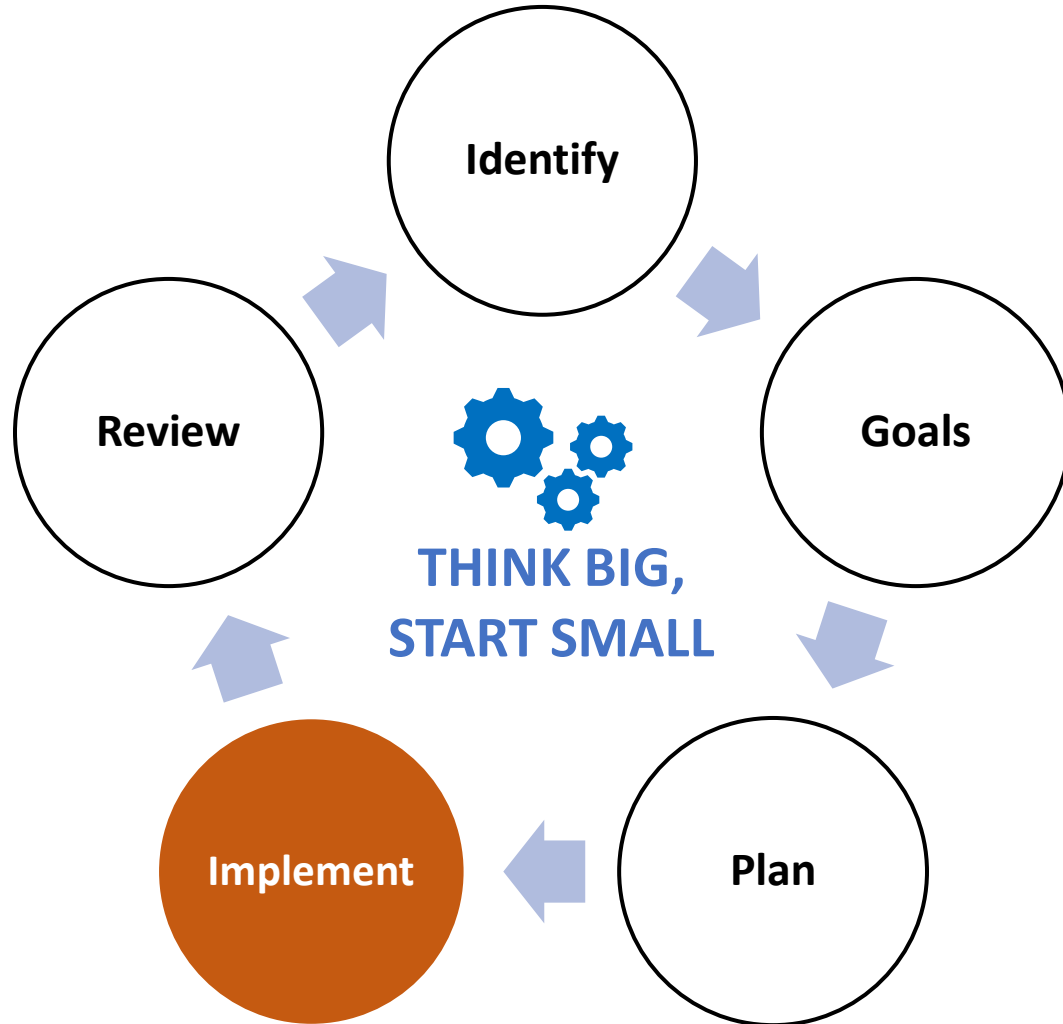
Measurable :

- Reduce Unplanned Downtime
- OEE Improvement
- Product Quality
- Workers Safety
- Energy Management
- etc



Look Into the Details:

- Project Duration
- External Vendor or In house Talents
- Budget Application
- Recovery and Contingency Plans
- Gantt Chart

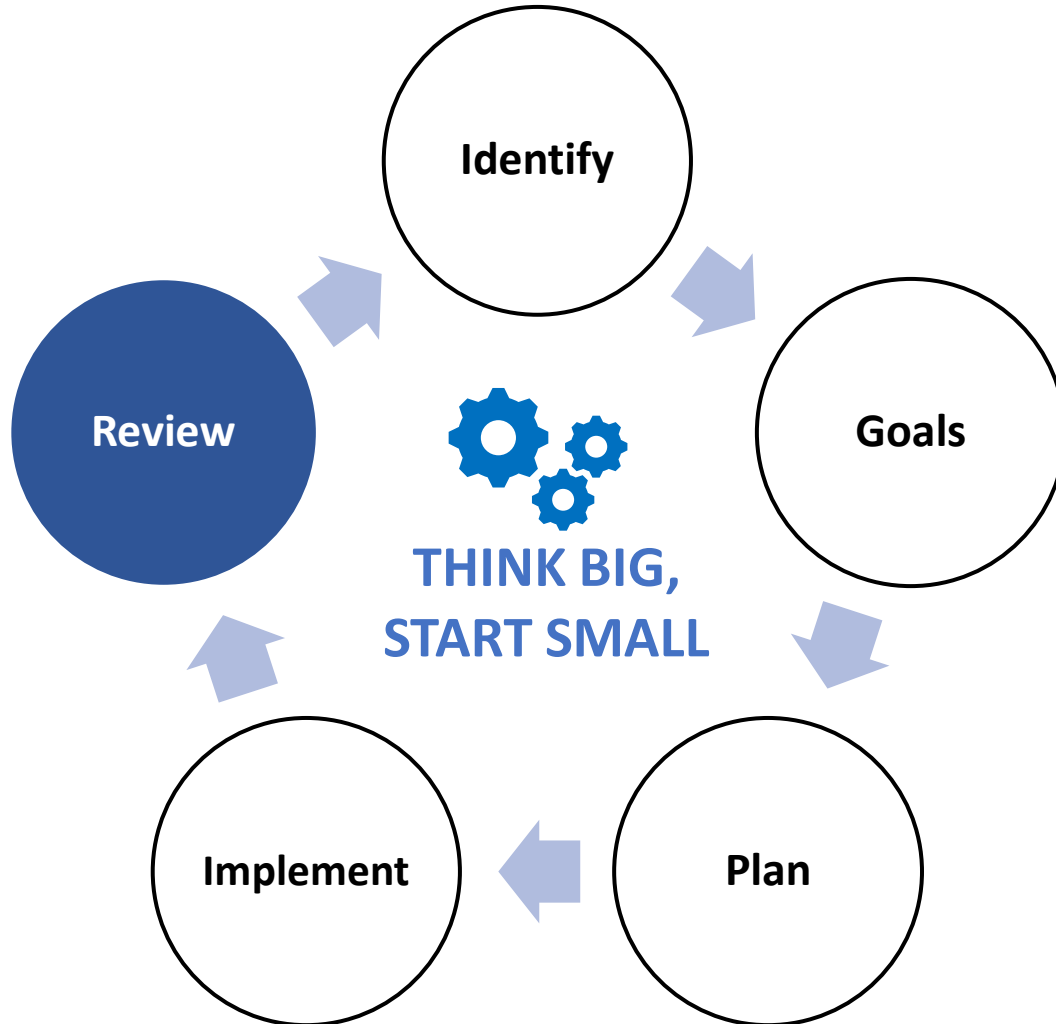


Project Management

- Progress Report
- Contingency plan for unexpected or undesired events, such as delay, system failures
- Expect the Unexpected...

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Post Mortem:

- KPI review
- Experience Gained
- Areas to be Improved
- Value Discovery
- Readiness to Scale

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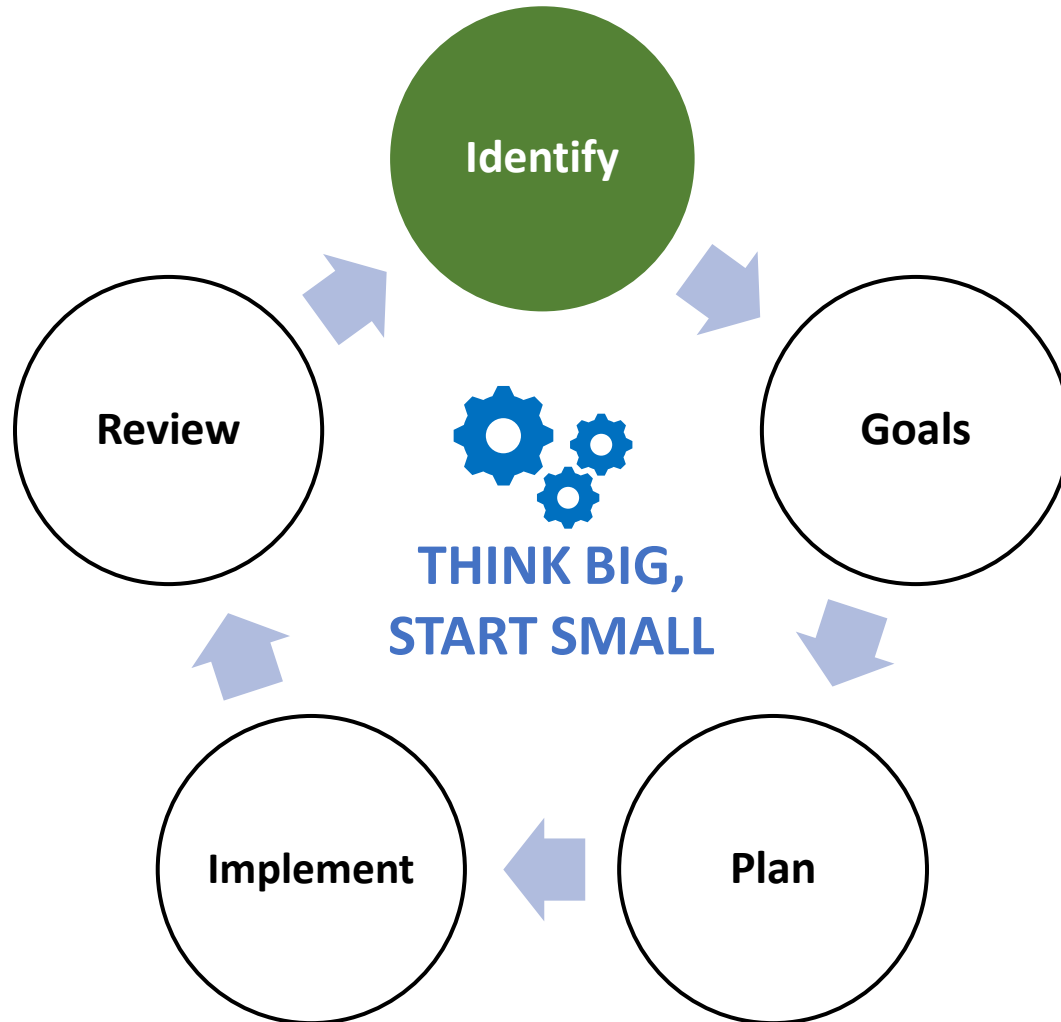
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Case Study Discussion ...

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Case Study Discussion ...

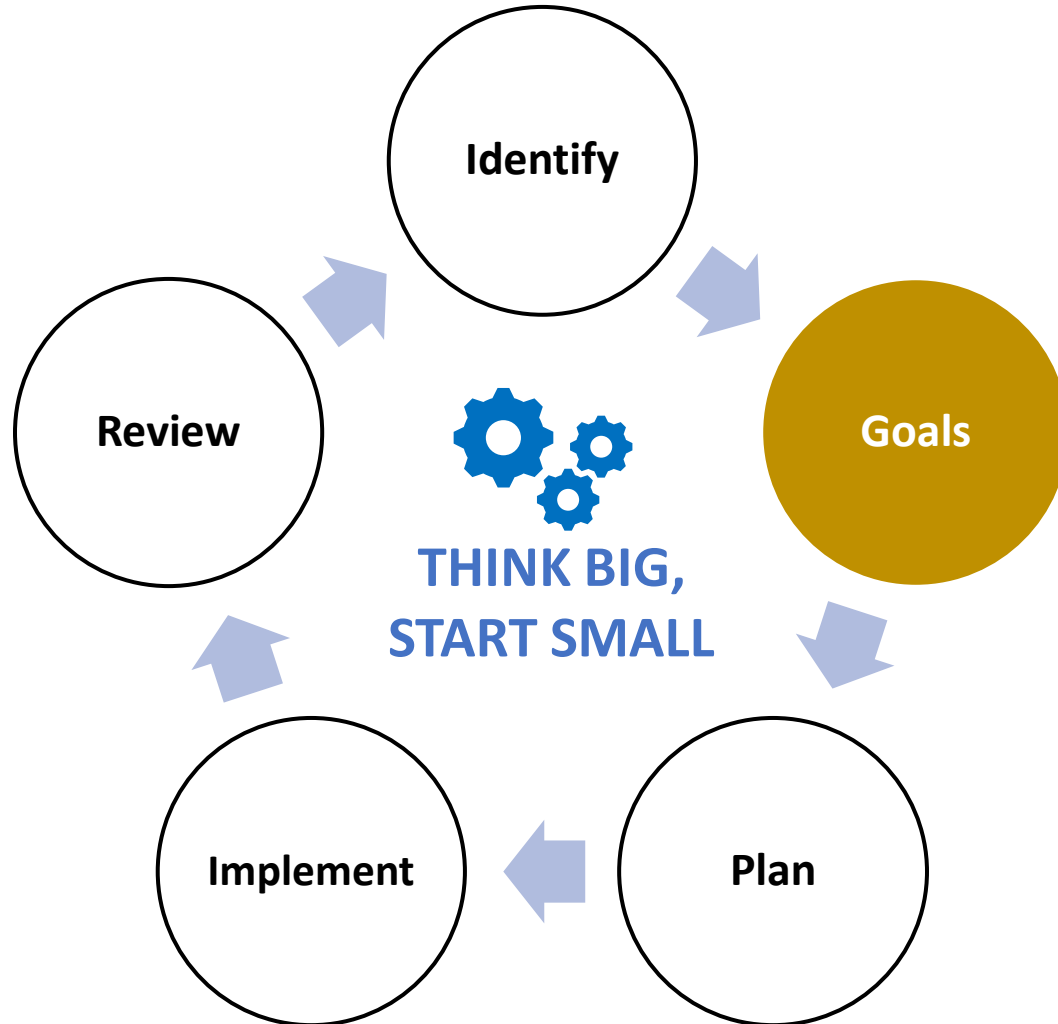
Problem statement:

Unnoticed machine unplanned downtime

Company has identified a machine which has a 'status' light tower to indicate the running condition, which can be connected to IoT system for remote monitoring

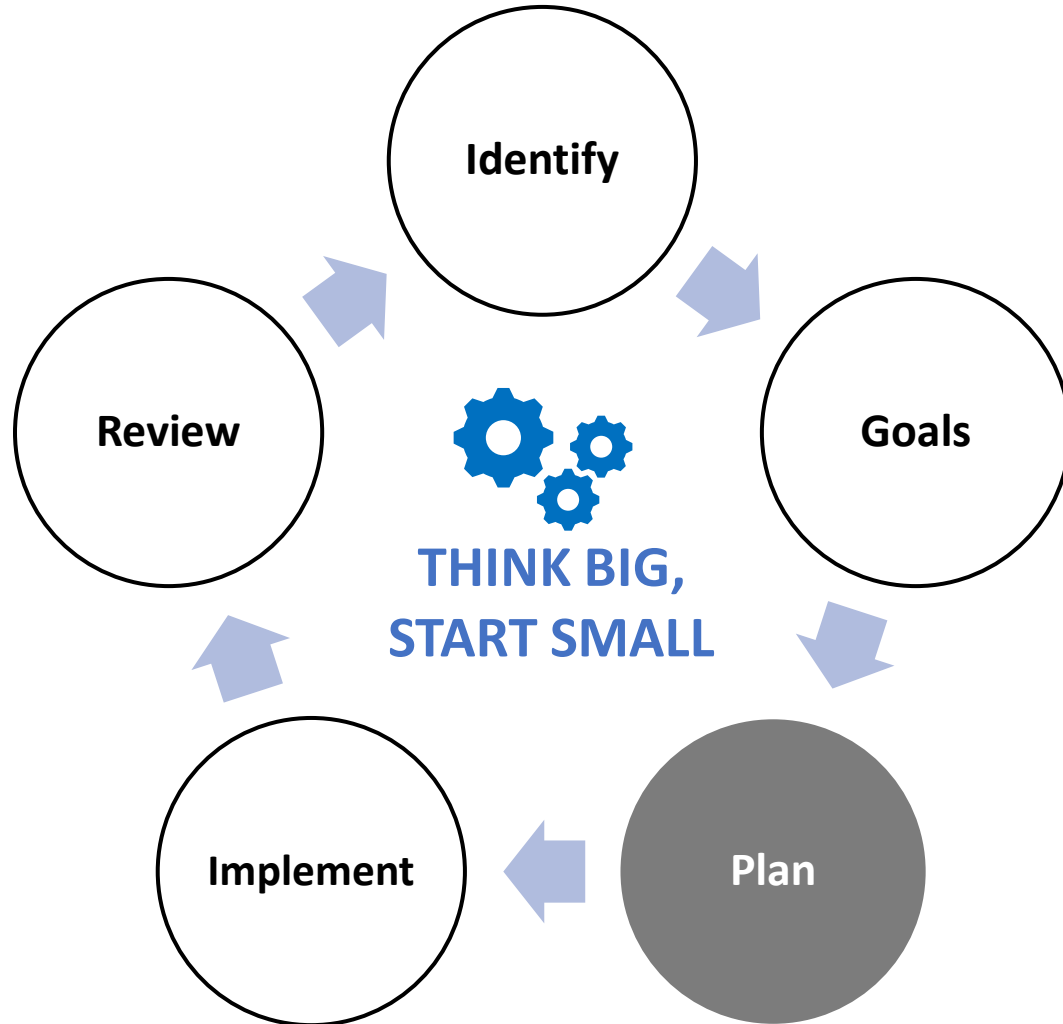
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Case Study Discussion ...

With the installation of IoT monitoring system, Company expects to reduce unplanned downtime by 30%



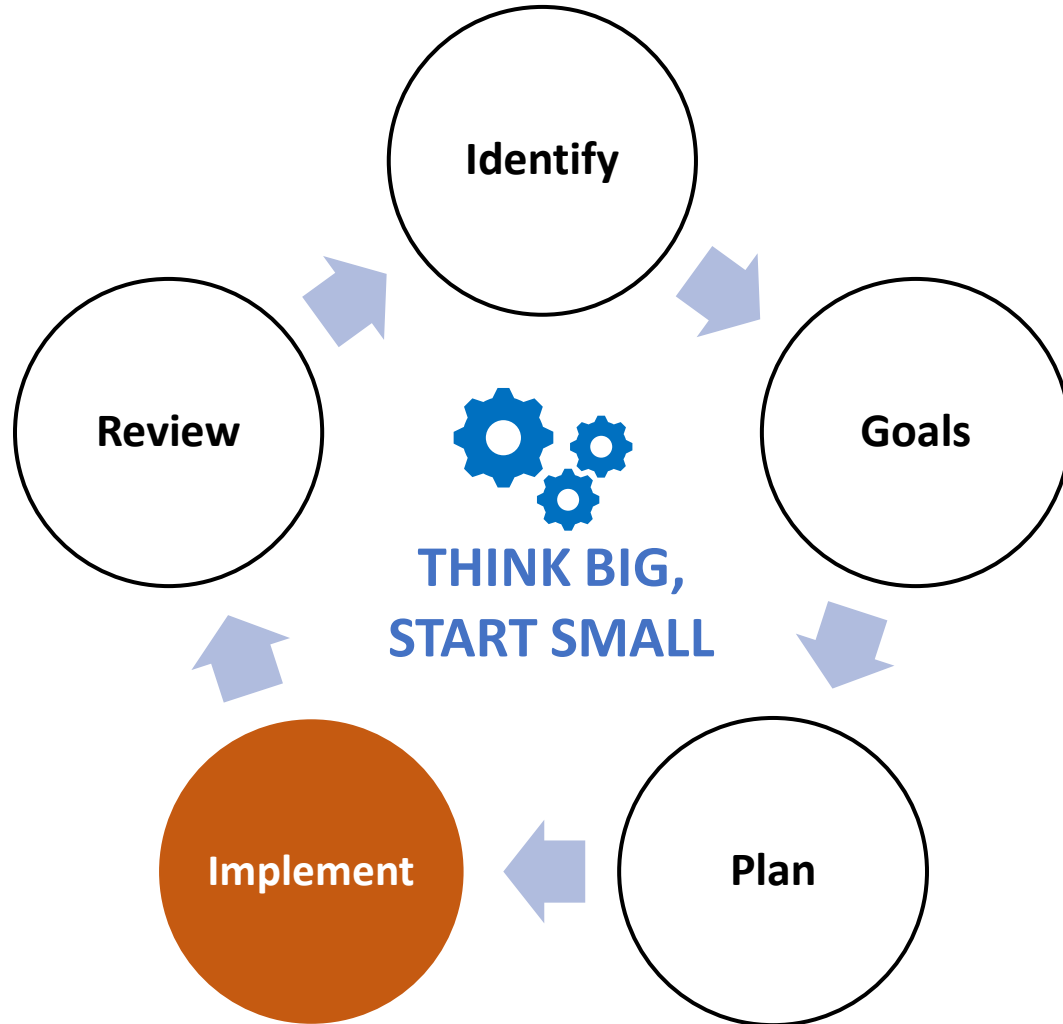
Case Study Discussion ...

- Set project duration of one month
- Applied budget of RM10K,
- Assigned 2 programmers to work with the chosen vendor, after review the 3 received quotations.

Arrange with production supervisor for scheduled shutdown for the system installation ...

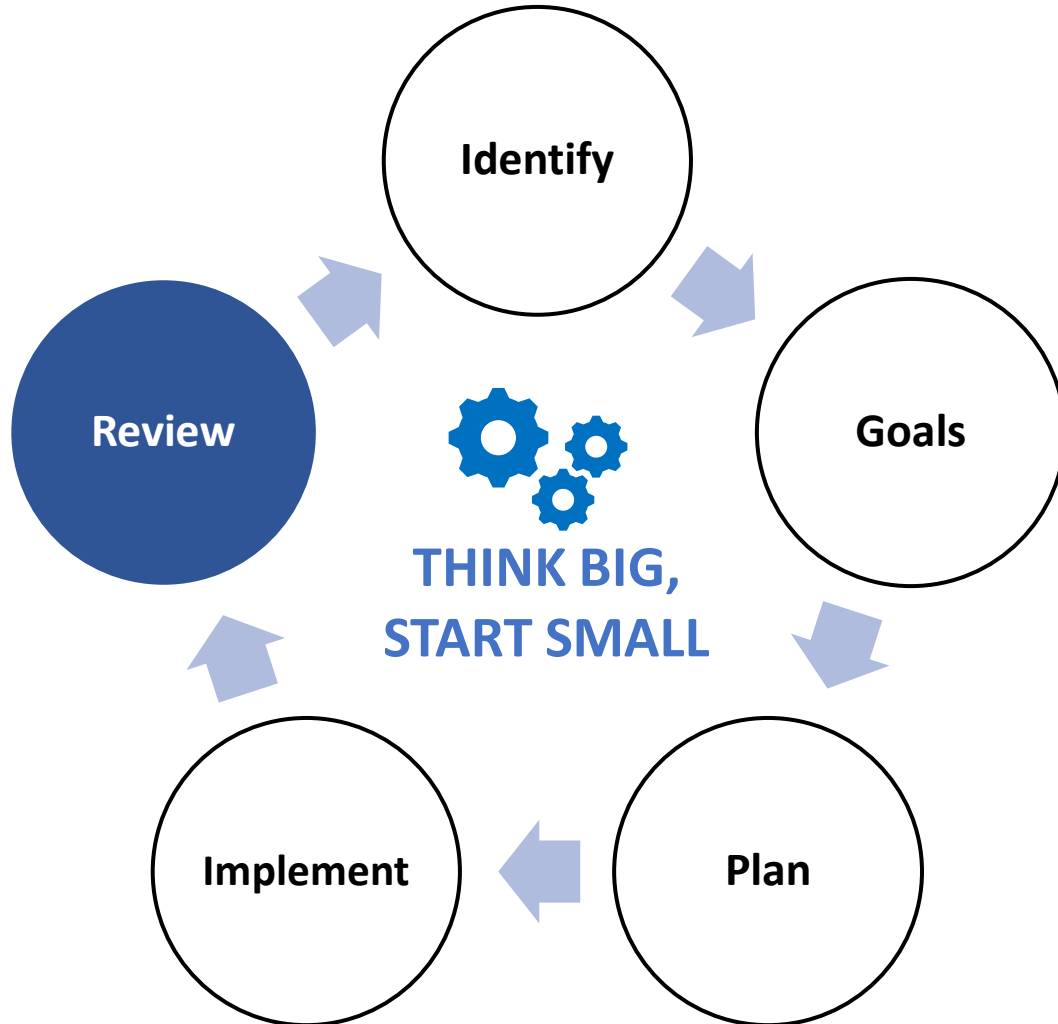
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Case Study Discussion ...

- To monitor closely to ensure the work progress is per the schedule
- To prepare a contingency plan for unexpected events ...



Case Study Discussion ...

System has been installed but it took 20% more than the planned project duration.

For the first month, the unplanned downtime reduced by 35%, as technicians are able to attend to the machine problem immediately due to the IoT real-time notification.

The team have gained some experience and confidence, ready for proliferation.

Thank You



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