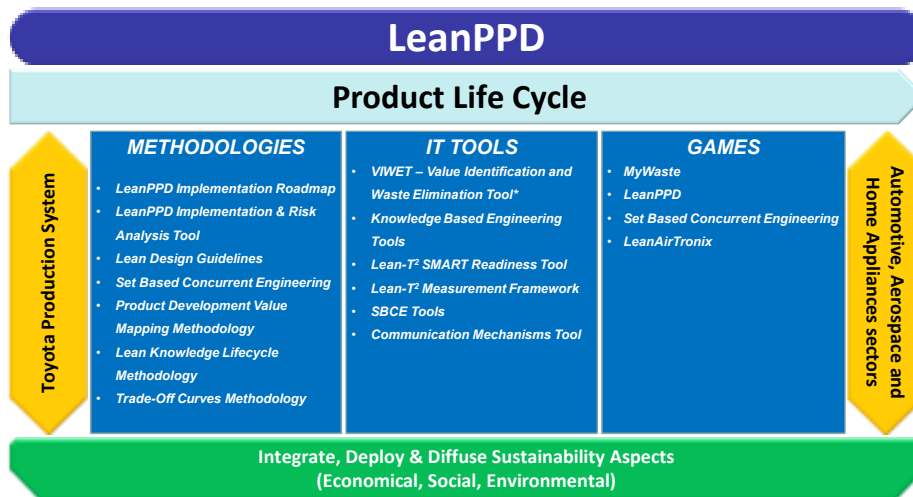




## SEVENTH FRAMEWORK PROGRAMME

### Lean Product and Process Development (LeanPPD)

Addressing the need of European manufacturing companies for value creation through the adoption of lean thinking throughout the entire product lifecycle

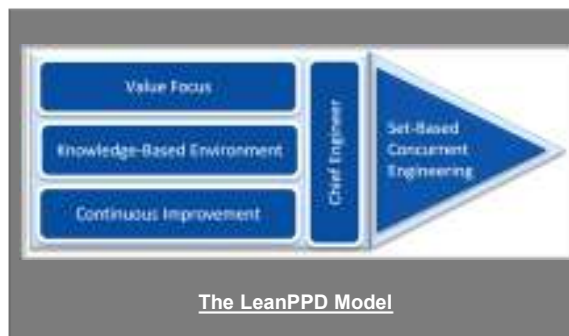


#### AIMS

Develop a new model, based on lean thinking, that considers the whole product life cycle  
 The model will provide a knowledge based, user-centric, design and development environment to support value creation to the customers in terms of innovation and customisation

#### OBJECTIVES

- Identify value-adding activities in product development through current LeanPPD and best practice
- Develop tools for LeanPPD value stream mapping and lean assessment
- Develop an approach for knowledge acquisition, re-use and creation to enable a knowledge based environment for product development
- Develop a set based process and supporting tools to enhance the design of lean products
- Develop a System Architecture Reference model to guide the implementation of KBE systems in LeanPPD
- Propose a route map for the incorporation of the model into differing levels of an organisation



#### Selected Publications

- Flores M., Klink S., Agrawal M., Al-Ashaab A., S. Terzi, Sopolana A. "Is the Balanced Scorecard used to measure Lean Thinking in the Product Development Process? Lessons from the Life Sciences Sector in Switzerland", Journal of Advanced Engineering Informatics, 2011.
- Flores M., Cabello A., Torredemer L., Agrawal M., Keast J., Terzi T., Sopolana A. "Do enterprises implement a Process Architecture towards Lean in Product Development? A comparative study among large and small firms", ICE Conference, June 2011.
- M. Flores, D.L. Diaz, C. Tucci "Wheel of Change Framework towards Lean in Product Development", CIRP Design Conference, France, 2010.
- Amalia Sopolana, Mikel Sorli, Marco Taisch, Ahmed Al-Shaab, John Keast, Myrna Flores, Dragan Skotic, Leire Martinez "Applying Lean thinking concepts to New Product Development", APMS Conference, Como, Italy, September 2010.
- Ahmed Al-Ashaab, Myrna Flores, Muhammad Khan, Maksim Maksimovic, Raham Alam, Essam Shehab, Athanasia Doutsinou, Amalia Sopolana "The industrial requirements of KBE for the LeanPPD model", APMS Conference, Como, Italy, September 2010.
- Celine Martin, John Keast, Mike James-Moore "The development of a tool and methodology for identifying and classifying waste within New Product Development.", APMS Conference, Como, Italy, September 2010.
- Ahmed Al-Ashaab, Essam Shehab, Rahman Alam, Amalia Sopolana, Mikel Sorli, Myrna Flores, Marco Taisch, Dragan Skotic and Mike James-Moore "The Conceptual LeanPPD Model", ISPE International Conference on Concurrent Engineering, 6th-10th September 2010.



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