

Updating the SEI Implementation Plan – overview of approach

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Introduction

- The first implementation plan of the Solar Europe Industry Initiative covered the period from the launch to date, 2010-2012
- The second implementation plan will run from 2013-2015
- Whilst the technical priorities will be revisited and updated to reflect progress in the last three years, there is also the opportunity to reconsider the structure of the document
- The first IP was required to address both the initial period and the overall vision of the SEII up to 2020, including what PV should be expected to contribute
- The change in the market over the last few years needs to be reflected in the new IP
- We will consider the general approach to the new IP to inform the discussion of priorities in the final session of the workshop

Process and Timescale

- SEII IP 2013-2015 (hereafter IP2) is being drafted by the European Photovoltaic Technology Platform and EPIA on behalf of the SEII Team and the European PV community
- Since June, discussions have been held with members of the Platform's WG3 and the Industry Advisory Committee to formulate the overall approach to formulating IP2
- A number of suggestions arising from this process have been brought for discussion at this workshop – all inputs will be used to draft IP2 during October
- Consultations will be held during November (with SEII Team, PVTP Steering Committee, PVTP Mirror Group and other interested stakeholders)
- SEII IP2 will be available in January 2013

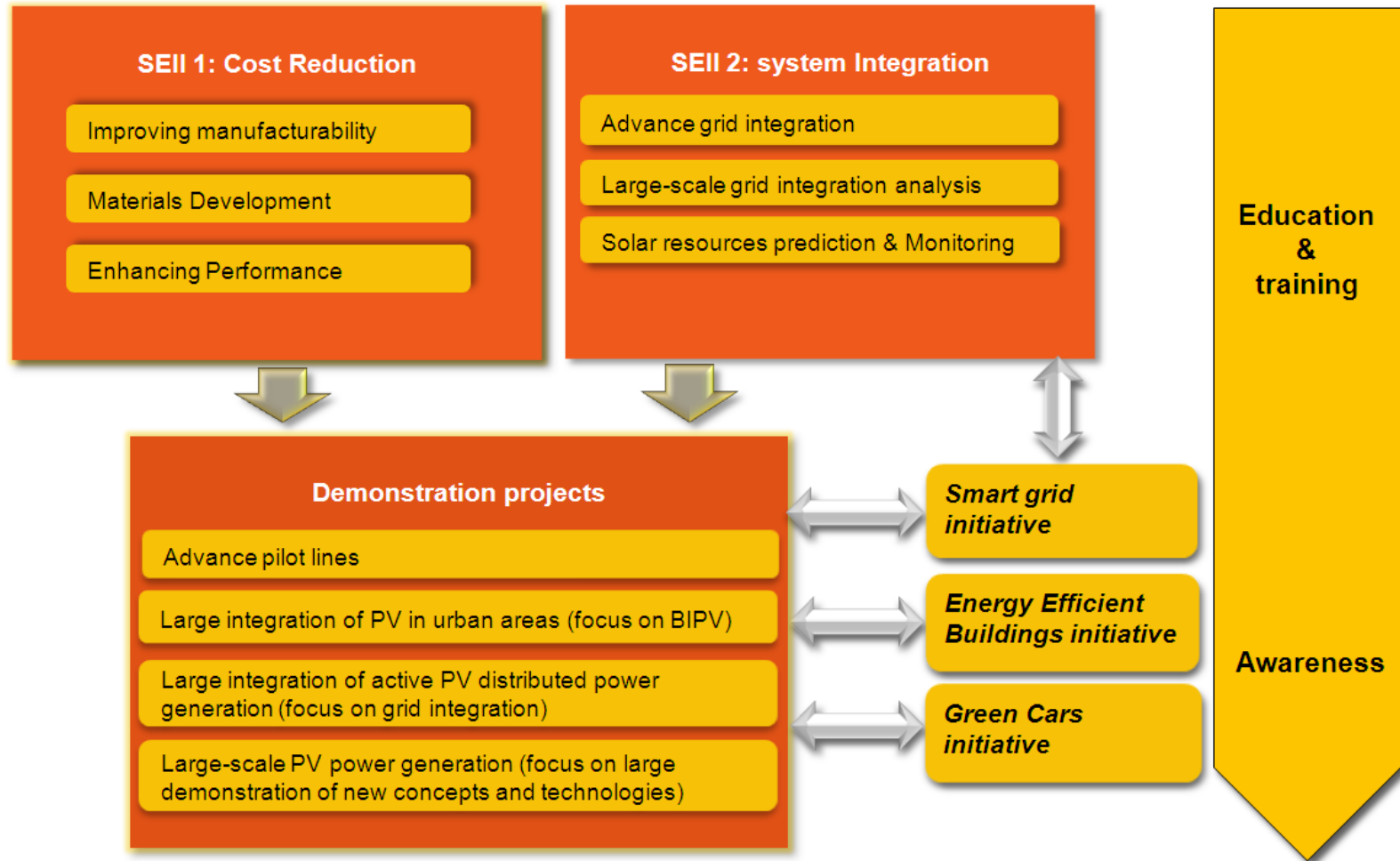
IP Structure

- The current IP has five sections: Introduction, PV Technology Roadmap, KPIs, Governance Structure and 3-Year Implementation Plan, together with an annex giving detailed R&D priorities and budgets
- **Introduction:** includes scenarios for implementation of PV, the scope of the SEII at the time of preparation, the state of the art (as of mid-2010), objectives for 2020 including numerical targets for cost and efficiency (also in the KPI section) and the suggested scope, objectives and impact of the SEII.
- IP2 will concentrate on progress in the last 3 years and how this influences the R&D priorities
- The period of IP2 covers the transition from FP7 to Horizon 2020 and it is noted that there is no call planned in 2013 – the Solar ERA-NET will be active

Governance and KPIs

- The governance structure in the first IP described a possible scheme that was under discussion
- The final composition of the SEII Team, which provides the steering committee of the SEII, was adopted in May 2011 and IP2 will reflect this new structure
- Key performance indicators were included in the first IP and updated by EPIA during the initial period of the SEII – they were adopted in late 2011 after approval by the Sherpa Group overseeing all EIs
- We will consider how the KPIs should be updated in terms of stated values, using the same principles

R&D themes



SEI 1 Cost reduction: paving the way to 2020

- **Advanced manufacturing processes for cells and modules**
- **Performance enhancement and lifetime extension**
- **Materials development & sustainability**

SEI 2 System integration: paving the way to 2020

- **Enabling large-scale deployment**
 - Grid interface
 - Building integration
- **Large-scale PV power plants**
- **Solar resources, monitoring and simulation**

Preparing for cost and penetration beyond 2020 levels

- **Ultra low cost technologies**
- **Very high efficiency approaches**
- **Integration concepts for very high levels of PV penetration**

Summary

- SEII IP2 will focus less on establishing the overall scope of the SEII and more on the detailed plan for the next 3 years
- The rapid progress in the market has meant that some of the beyond 2020 topics are likely to be included in the pre-2020 programme
- We need to take account of the available funding instruments in achieving a detailed plan
- This presentation has provided an overview of IP2 to inform the discussion on priorities