

**Model Standardization is**

**Good for Focusing the Community.**

**On a Sustained Evolution of  
Improvements for the Future**

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**A Standard Model can be**

**used**

**improved**



**by anybody who wants to**

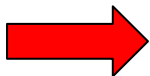
**and**

**must be a good model.**

**Two requirements to maintain the Standard Model:**

**(1) bug-fixing and support for users**

**(2) incorporate all good new improvement ideas into the source code**



**Huge Work-Load Sharing,  
Coordination and Fair Crediting Problem**

# Model Requirements and Development Facts

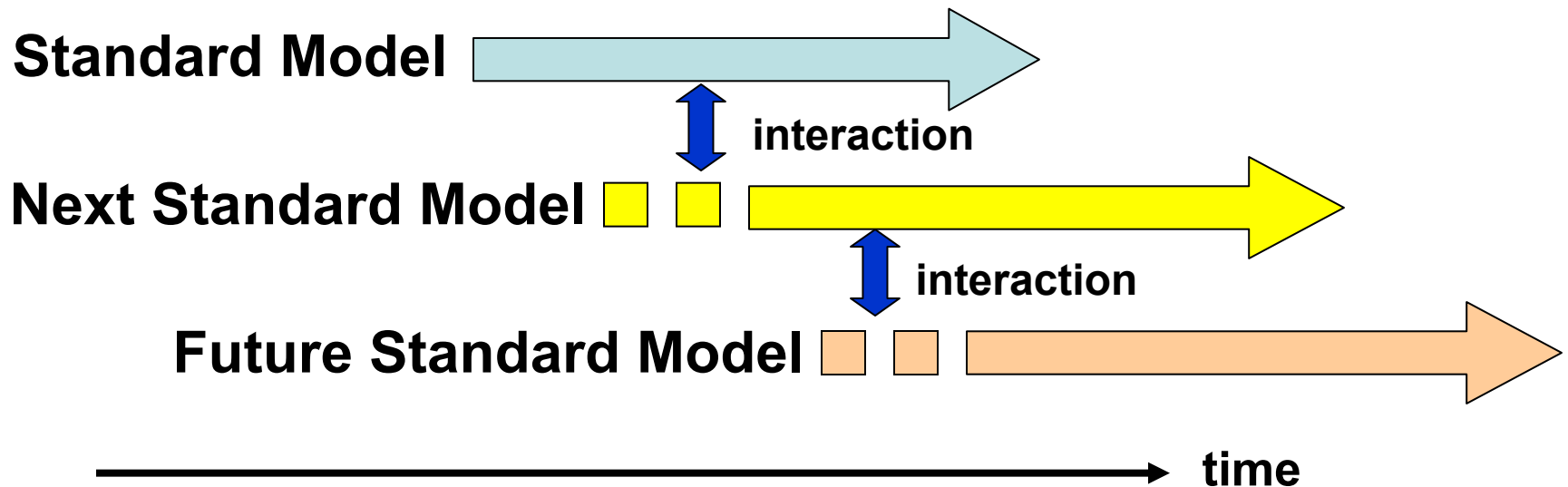
- **Models are required immediately after or during technology development.**
- **Model development takes a lot of time:**
  - 90% of the model is ready within 1 year.**
  - The rest, fine tuning and debugging requires often many years.**

## Possibilities for Situation Improvement

- **Enable Absorption of many Model Development Ideas**
  - ⇒ disclose model source codes
- **Intensive Engaged Collaboration**
  - ⇒ suitable funding system
- **Long Term Efficiency**
  - ⇒ fair crediting of contributors

# Ideal Situation

## Parallel Interactive Development of Model Generations



- ✧ **Targets have to be jointly clarified for each generation.**
- ✧ **All model developers have to contribute to the maintenance and user-support work load.**
- ✧ **Several cooperative development centers, to enhance the variety of ideas.**