

# PROGRAMMING GUIDELINES FOR PARALLEL APPLICATIONS

- Aimed at increasing the productivity of application developers
- Based on parallel programming best practices used by expert developers of the HPC community



## STEP 1

### **Prepare the code for parallelism**

To reduce the cost/effort of parallel software development and maintenance.



## STEP 2

### **Create a first parallel version of your code**

To develop a parallel version of existing sequential code that runs faster.



## STEP 3

### **Optimize your parallel code**

To fine-tune the parallel code to obtain peak performance of the target hardware platform.

## **There is a set of rules for each step**

- Rules presented with objective metrics to measure the progress during the development process.
- Each rule is given a unique identifier.
- All rules are mapped to EPEEC programming models.

<https://epeec-project.eu/guidelines>

