# Roadmap to DUNE 1.0

## The DUNE developers

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#### Requirements for DUNE 1.0

Item	Responsible	State
Grid implementations		
YaspGrid (parallel)	HD	available
SGrid	HD	available
UGGrid (sequential)	В	available
OneDGrid	В	available
AlbertaGrid	FR	available
ALU3dGrid (parallel, no load balancing interface)	FR	available
Applications		
Adaptive $P_1$ finite element method	Peter	available
On-the-fly density-driven flow on structured mesh with cell-	Peter	available
centered finite volume methods		
Euler code, cell-centered/DG	FR	?
Linear elasticity with $P_1$ elements	В	?
ISTL/Solvers		
Krylov methods: CG, BiCGSTab	HD	available
Simple preconditioners: Jacobi, GS, SSOR, ILU	HD	available
AMG sequential	HD	available
AMG parallel	HD	debug
Portable coarse grid reader	FR+	?
Graphics output		
Grape (problem: works only for FR numerics)	FR	available
ParaView/VTK (problem: works only for HD numerics)	HD	available
Amira (how general is this output?)	В	available
Documentation		
Online documentation	All	
Tutorial		
Test system		
Clear concept for version control with at least stable/testing	All	
categories		

#### Schedule

Date	Action
?	Agreement on what should be in 1.0
?	Feature freeze for grid interface, only bug fixes allowed afterwards
?	Feature freeze for ISTL interface, only bug fixes allowed afterwards
?	Availability of applications
?	Relevant fly spray tasks completed
?	Test system completed
?	Testing completed
?	Documentation available
?	Release of version 1.0