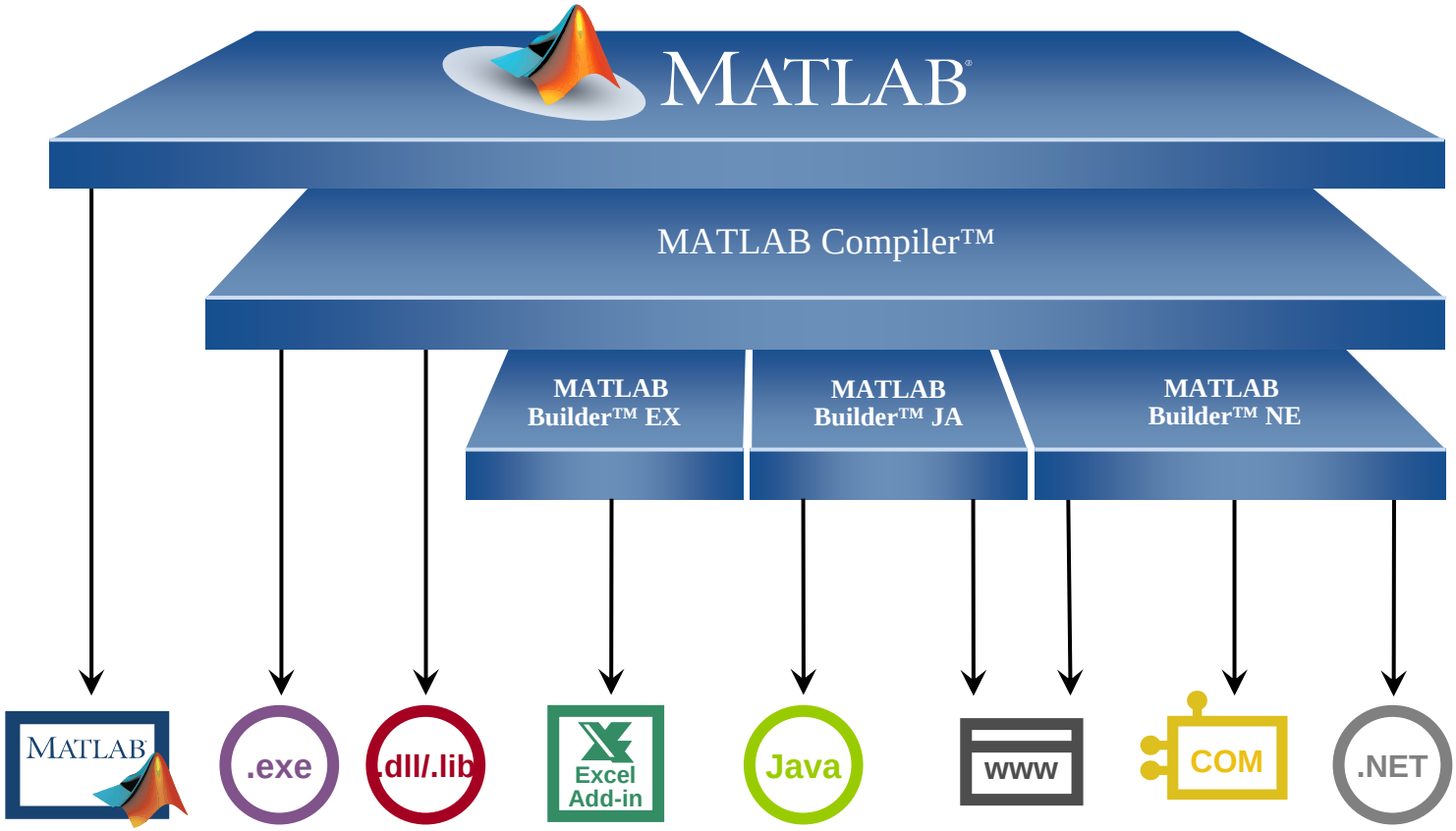
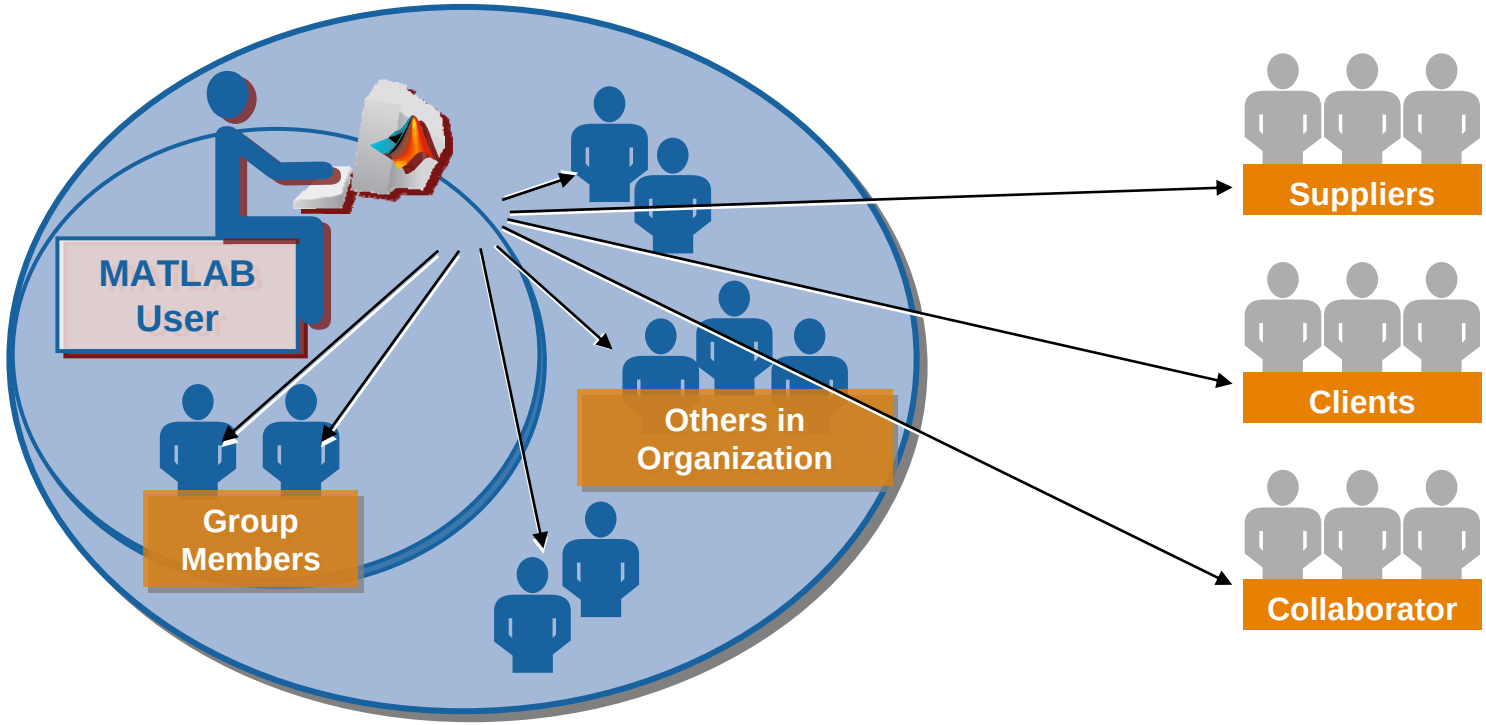
MATLAB® Compiler™

Introduction To MathWorks Deployment Products



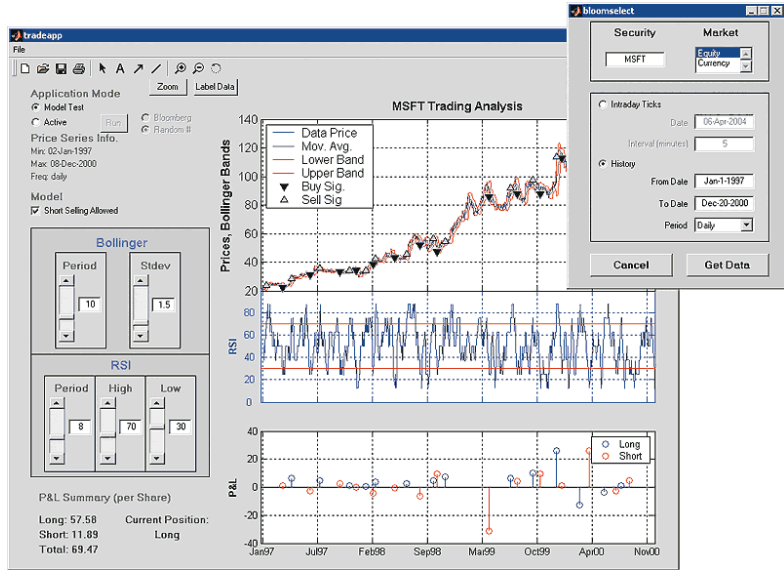
MATLAB Deployment Products in Your Workflow

MATLAB deployment tools let you share your MATLAB applications with others who do not use MATLAB, with no recoding, and no royalties.

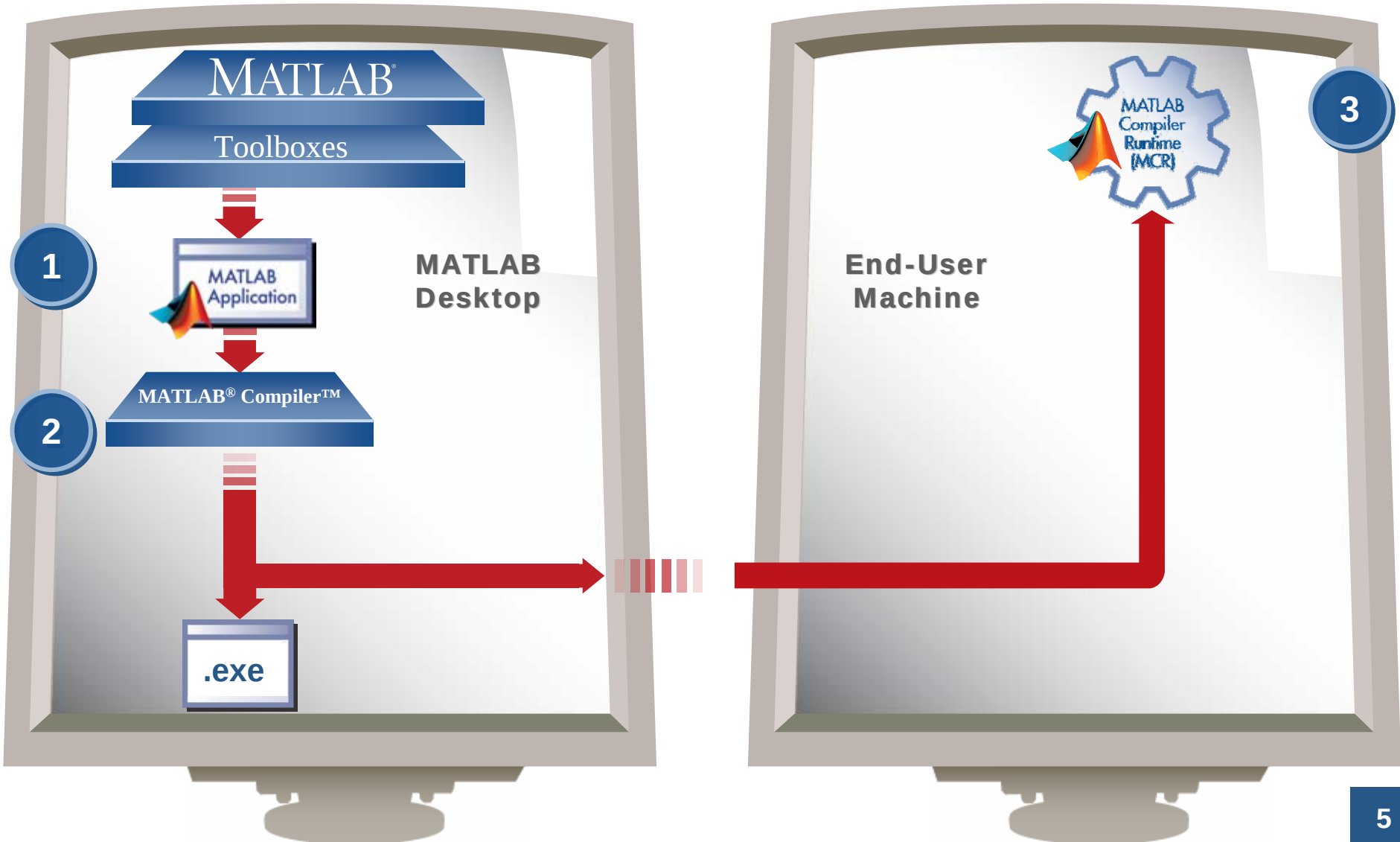


Introduction to MATLAB Compiler

- Automatically packages your MATLAB programs as standalone applications and software components
- Supports full MATLAB language and most toolboxes
- Allows royalty-free deployment
- Provides shared infrastructure with MATLAB:
  - *Speed of compiled application equivalent to speed in MATLAB*
- Encrypts your functions



Deploying Applications with MATLAB®



Required Files for Deployment

1. Standalone executables, libraries, or components
   - Generated each time MATLAB Compiler runs
   - Contains supporting M-files, MEX-files, Java files, MAT-files, etc.

2. MATLAB Compiler Runtime (MCR)
   - Enables the execution of generated applications
   - Deployed and installed only once on end-user desktop

MATLAB does not need to be available on the target user's desktop.

PCT vs. MATLAB Compiler

	Parallel Computing Tools	MATLAB Compiler
End product	M-files or Simulink models	Standalone application (could be few 100 MBs) ▪No Simulink
Changes to algorithm/code	Edit M-files or Simulink models	Edit, re-compile, re-install on all machines
Data-parallel capabilities	True data-parallelism	User must manually integrate with MPI library
Prototyping capabilities	Interactive capabilities (*matlabpool* and *pmode)*	Not designed for prototyping
Handling results, files, datasets	Data is transferred for the user	User must manually transfer data