



INTER-OPERABILITY MADE EASY



MapuSoft is the global leader in software interoperability & reusability solutions that provide freedom, protection and stability to embedded applications





## FREEDOM

Don't confine your  
code to one platform



## PROTECTION

Protect software  
investment



## STABILITY

Robust and  
optimized platform





## Cross-OS™ Development Platform





# OSCHANGER<sup>®</sup>

Easily migrate your code to a new OS

C/C++ Applications

## Current OS Platform

VxWorks	FreeRTOS
Nucleus	μC/OS
pSOS	μITRON
RTLinux	ThreadX
VRTX	QNX
Windows	Linux/POSIX

## New OS Platform

Linux	NetBSD	RT Linux
Android	Nucleus	VxWorks
eCOS	Freescale MQX	ThreadX
LynxOS	Windows	FreeRTOS
Solaris	μC/OS III	Unix
μITRON	QNX	In-house



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## OS Changer Porting Kit Contents

- Application Common Operating Environment (AppCOE): An eclipse based IDE for development of C/C++ applications
- One OS Changer Interface for the OS you are moving from
- Specific OS Abstractor Target Specific Module for the target OS you are porting to
- Library Package Generator
  - Full library source code of the OS Changer Interface and OS Abstractor Target Specific Module for your target platform
  - Sample demo applications
  - Project build files for supported tools & IDEs for your target environment



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## OS Changer Porting Kit Contents

- Optimized Target Code Generator
  - Generates the OS Changer Porting Interface and OS Abstractor Target Specific Module source code, specifically optimized for your application and target environment
  - Creates project files for your target IDE
  - Includes the system settings you chose in the GUI-based Wizard
- OS Simulator for your chosen OS Changer Interface for host development/simulation
- Profiler to view performance data of your application and OS Changer Interface for your target



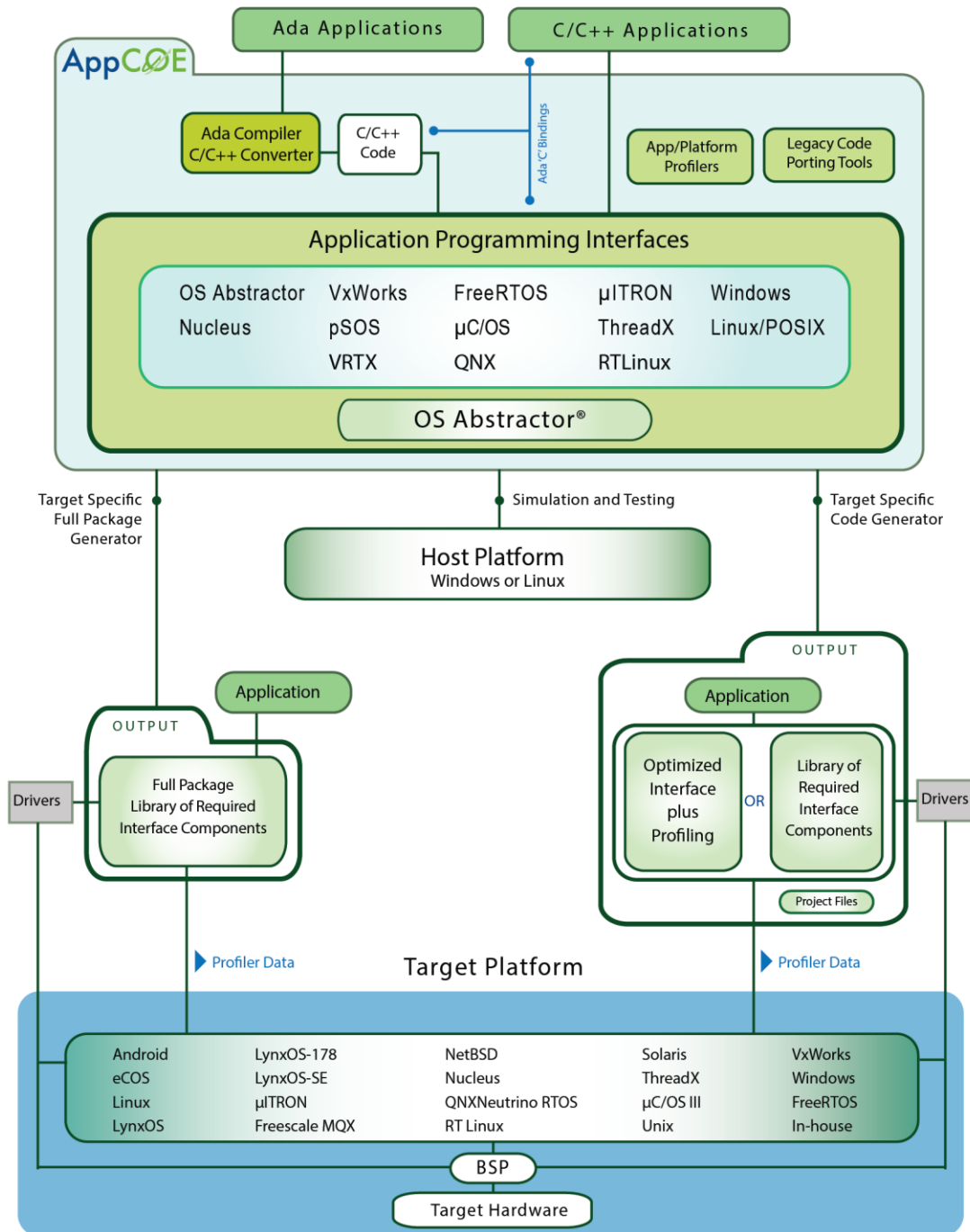
## ROI: Cost of Porting – Manual vs. OS Changer

	Small	Medium	Large
	<u>10K LOC</u>	<u>100K LOC</u>	<u>1M LOC</u>
Manual Porting of Single Application *	\$ 95,338	\$ 953,380	\$ 9,533,800
OS Changer License Fees	\$ 12,000 <sup>1</sup>	\$ 43,200 <sup>2</sup>	\$ 72,000 <sup>3</sup>
<u>Estimated Labor to use OS Changer</u>	<u>\$ 8,000</u>	<u>\$ 16,000</u>	<u>\$ 64,000</u>
Cost of Porting with OS Changer	\$ 20,000	\$ 59,200	\$ 136,000

(<sup>1</sup> = Single Seat License, <sup>2</sup> = 10 seat License, <sup>3</sup> = Source Code Site License )

Savings (Manual minus OS Changer)	\$ 75,338	\$ 918,780	\$ 9,397,800
Return on Investment	377 %	2,436 %	6,910 %

\* Source: Software Engineering Institute, Carnegie Mellon, 2008 Bureau of Labor Statistics, 2006. Porting estimated at half the cost of new development.



AppCOE™

Application Common  
Operating Environment