Alternative Systems Development Approaches

The Know-What

	Advantages	Disadvantages
Traditional Life Cycle	▪ Users signing off ➔ finalization ▪ Documentation	▪ Incomplete requirements ▪ Slow/expensive ▪ Inflexible/frozen
Prototyping	▪ Accurate/realistic requirements ▪ Rapid development ▪ Friendly user interface	▪ Endless iteration ▪ Premature operation ▪ Lack of documentation
Packages	▪ High-quality/reliable ▪ Rapid ▪ Low cost ▪ Documentation ▪ Vendor support	▪ Lack of customization ▪ Lack of availability ▪ $ite license/user
End-user Computing	▪ Reduction of backlog ▪ Rapid development ▪ No user training required ▪ Lightening of staff load	▪ Development training ▪ Reinventing the wheel ▪ Duplication across departments ▪ Lack of documentation ▪ Poorly designed and tested
Outsourcing ➢ Development ➢ Operation	▪ Protection from technological obsolescence ▪ Low overhead ▪ High quality	▪ Dependence on vendor expertise and survival ▪ Lack of direct control ▪ Lack of security

Alternative Systems Development Approaches

The Know-When

The Know-When Principle:
If you have know-how without know-when, then you won't know when to use which know-how!