


**BRIEFING ON SIRIM
AIC - AISDEL
ACTIVITIES**


TO
JICA EVALUATION TEAM
FOR
AISDEL FINAL YEAR REPORT

8 - 11 NOVEMBER, 1999

BY
DR. MOHD. SHAZALI OTHMAN
VICE PRESIDENT (AMTD)




SIRIM, Berhad. YOUR PARTNER TO GLOBAL TRADE



NATION'S VISION

- *Fully developed nation by 2020*
- *Global partnership*
- *Private sector as primary engine of growth*
- *Mastery of technology critical*



SIRIM, Berhad. YOUR PARTNER TO GLOBAL TRADE



NATION'S MAIN THRUSTS

- ***Manufacturing technology vital for economic growth***
- ***Develop R&D capability in industry***
- ***Support by public sector and corporatized R&D institutions and universities***



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



ABOUT SIRIM

- ***Established in 1975 under the SIRIM (Incorporation) Act 1975***
- ***A national multi-disciplinary R&D agency under the Ministry of Science, Technology and the Environment***
- ***Corporatized into a wholly-owned Government company on 1 September 1996 under Ministry of Finance Inc.***



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



MISSION

- ⇒ ***TO ENHANCE OUR CUSTOMERS COMPETITIVENESS THROUGH TECHNOLOGY AND QUALITY***
- ⇒ ***TO FULFILL THE NEEDS OF THE STAKEHOLDERS***



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



ROLE

TO ACT AS :

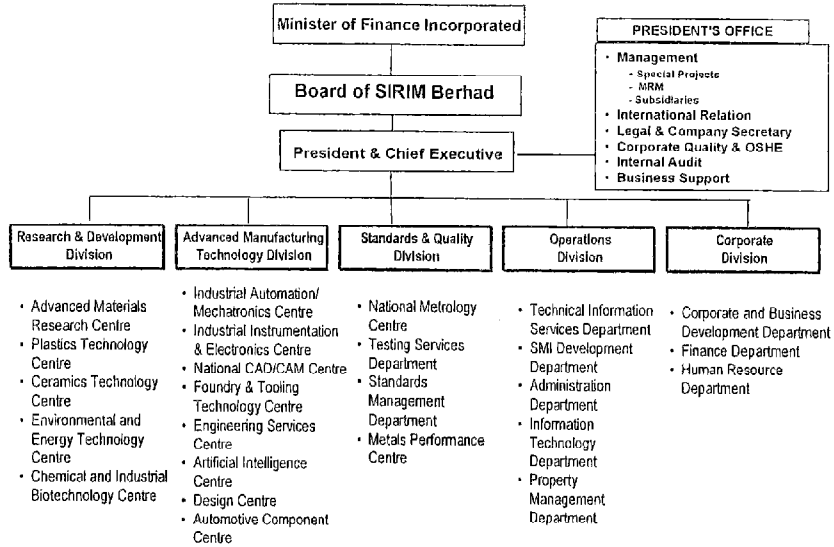
- ⇒ ***A CHAMPION OF QUALITY***
- ⇒ ***THE NATIONAL TECHNOLOGY DEVELOPMENT CORPORATION***
- ⇒ ***VEHICLE FOR TECHNOLOGY TRANSFER***
- ⇒ ***A PROVIDER OF INSTITUTIONAL & TECHNICAL INFRASTRUCTURE FOR THE GOVERNMENT***



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



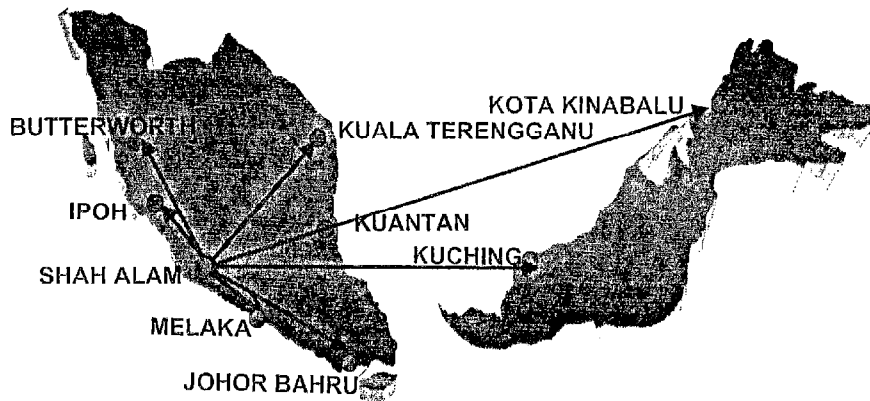
ORGANISATION STRUCTURE



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



SIRIM BRANCHES

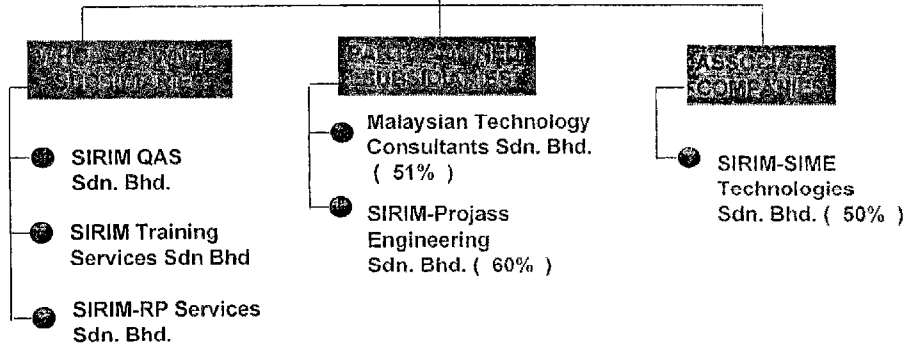


SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



GROUP CORPORATE STRUCTURE

SIRIM BERHAD



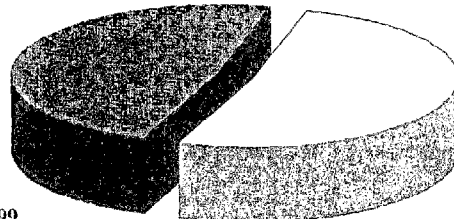
SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



MANPOWER 1999

GROUP	EXISTING STAFF
<i>Executives</i>	599
<i>Non Executives</i>	556
TOTAL	1155

NON-EXECUTIVES 556



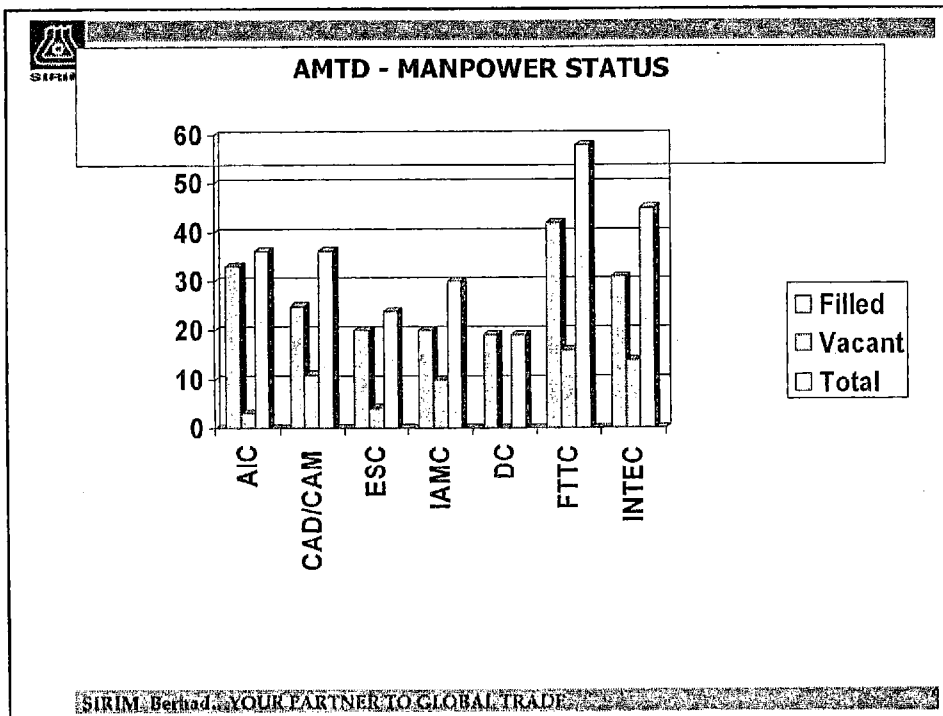
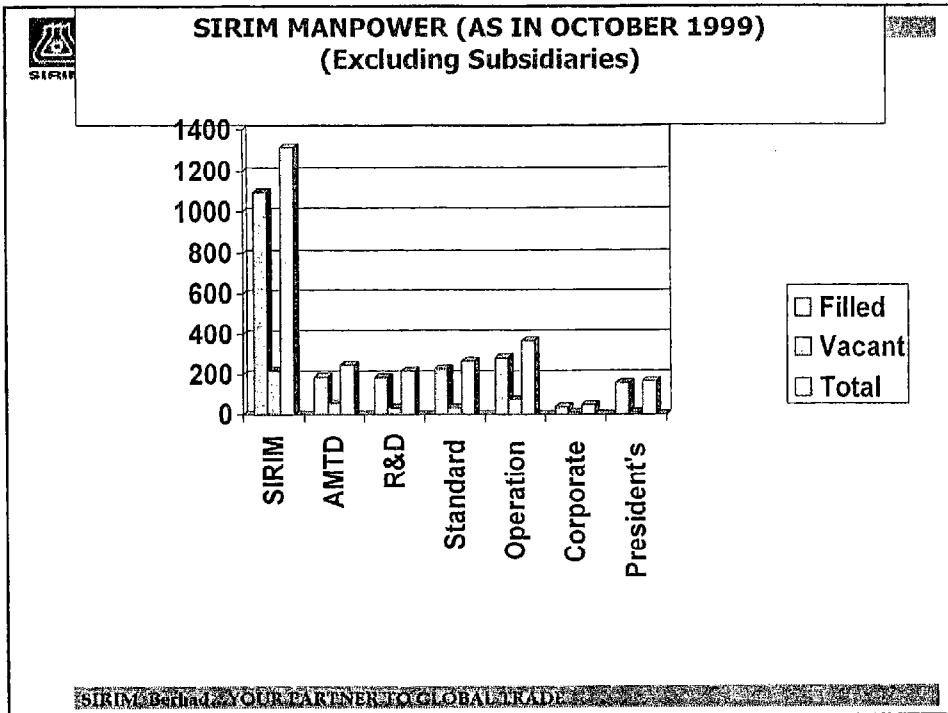
EXECUTIVES 599

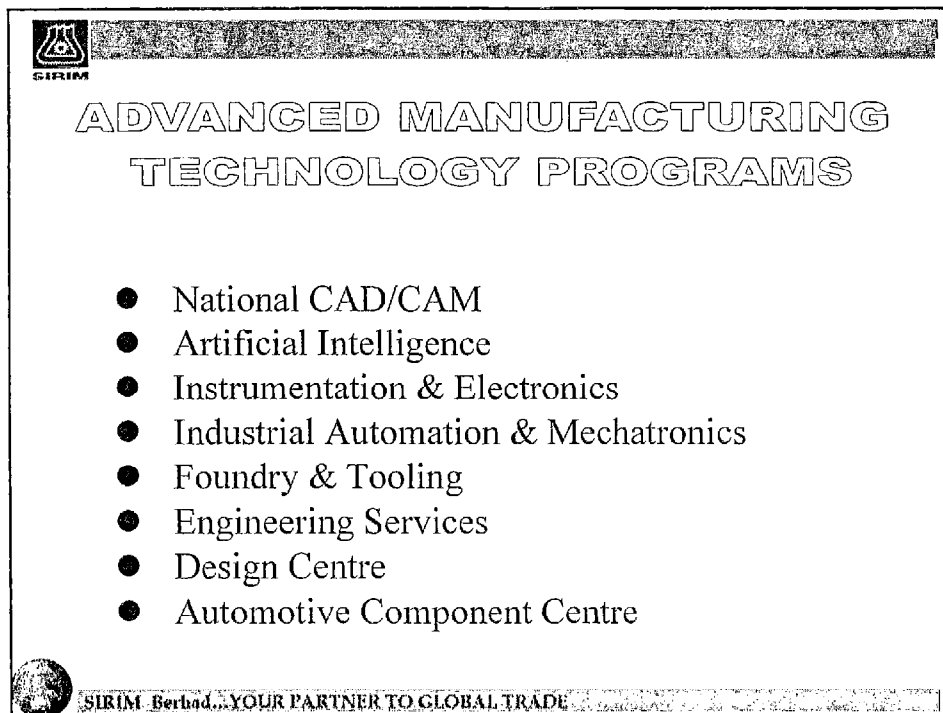
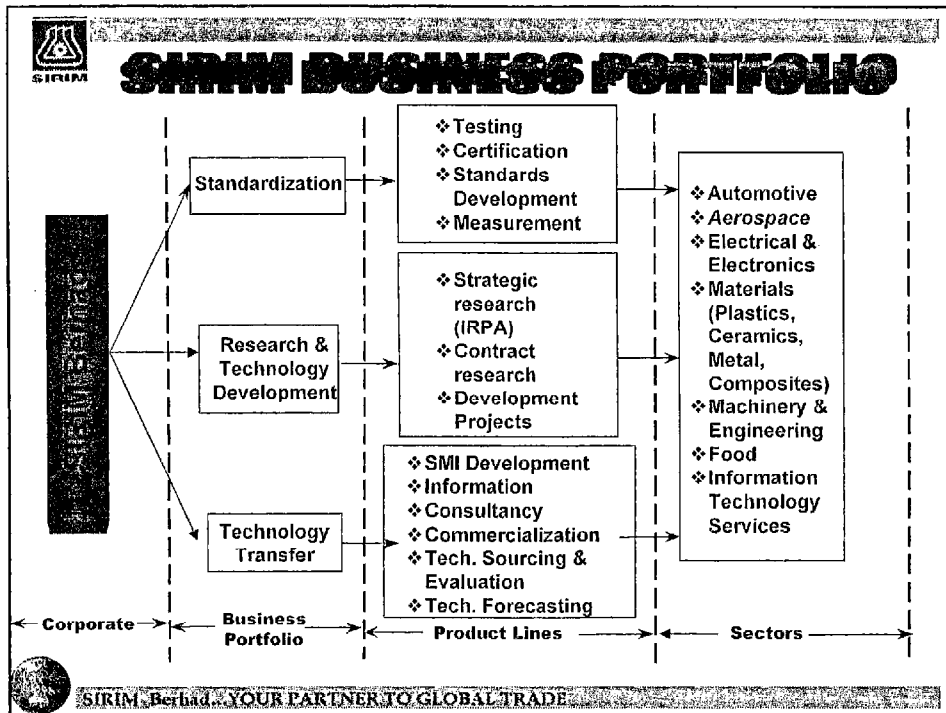
JAN 1999

TOTAL : 1155



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE







I.T. PROGRAMMES

- National CAD / CAM
- AISDEL
- MATIC
- I.T. Hardware Design and Development
- Open Platform and Security for Smart Cards
- Smart Cards Applications
- I.T. Security Laboratory
- Multimedia Laboratory
- Y2K Readiness Certification
- Malaysian Standards in I.T.

SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



National CAD/CAM

- Virtual Manufacturing System
- MATIC - WG1 (Automotive)
- Computer Integrated Construction
- Machine design and assembly
- Product data exchange

Note: MATIC

•Manufacturing Technology supported by Advanced and Integrated Information System through International Cooperation



SIRIM Berhad... YOUR PARTNER TO GLOBAL TRADE



INSTRUMENTATION & ELECTRONICS

- Industrial electronics
- Communications
- Information technology
- MATIC - WG2 (Electronic Catalogue)
- Scada & telemetry
- Embedded computing technology
- Laser & Opto-electronics



SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE



ARTIFICIAL INTELLIGENCE

- AISDEL
- Expert system/ Knowledge base
- Open platform standards
- Smart applications compliance
- IT security
- Multimedia technology



SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE



INDUSTRIAL AUTOMATION/ MECHATRONICS

- Automation system
- Robotics System Integration
- Flexible Automation
- Material Handling
- Intelligent Processing for manufacturing



SIRIM Berhad. YOUR PARTNER TO GLOBAL TRADE



SIRIM RESEARCH SCHEMES

- Contract Research
- Joint-Venture Research
- STRIVE
- IRPA



SIRIM Berhad. YOUR PARTNER TO GLOBAL TRADE



GOVERNMENT FUNDING SCHEMES

- **IRPA Fund**
- **Industry Grant Scheme (IGS)**
- **Commercialization in R&D Fund (CRDF)**
- **Technology Acquisition Fund (TAF)**
- **ITAF**
- **Multimedia Grant Scheme (MGS)**
- **Demonstrator Application Grant (DAGS)**



SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE

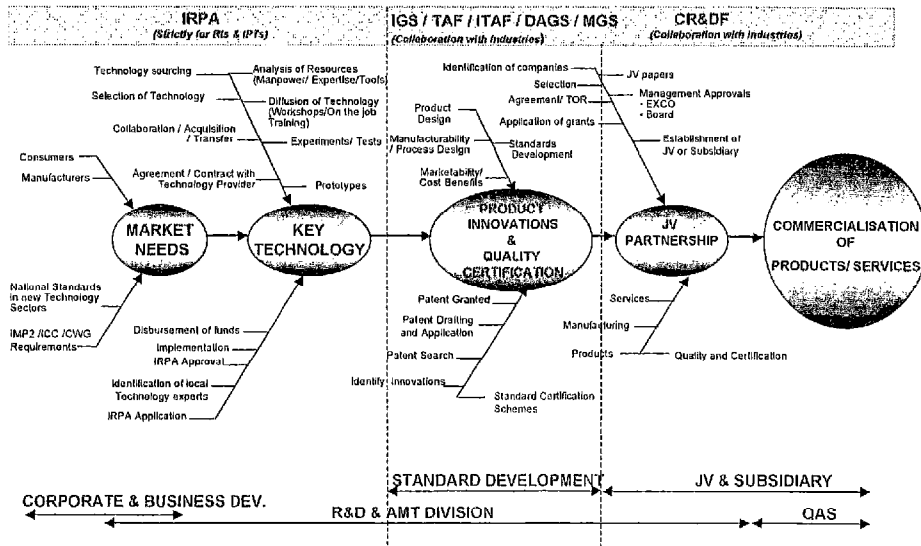


SIRIM Berhad

Figure 1

STRICTLY CONFIDENTIAL

FUNDING FOR R&D ACTIVITIES (From Concept to Commercialization)



D:\MPLAN_Oran2

© Copyright 1998

Date : 4th January 1999

SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE



INFORMATION TECHNOLOGY - OPEN PLATFORM AND SECURITY

Main concerns

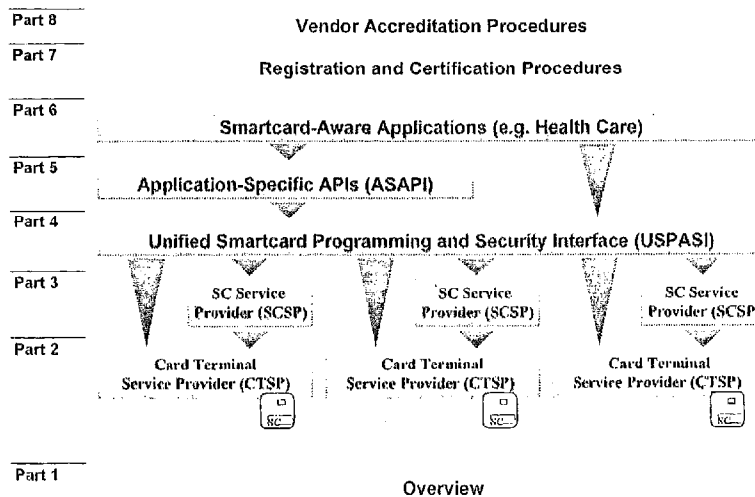
- RM 3 Mil. fraud (Cloning of ATM cards)
- Incompatibility among various cards (too many proprietary systems)

There is a need for an open system smartcard.

SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE



I.T. PRODUCTS SECURITY STANDARDS - MULTIPURPOSE SMARTCARDS APPLICATIONS PARTS 1-8 (Or National Unified Programming and Security Platform-NUPSP)



SIRIM Berhad YOUR PARTNER TO GLOBAL TRADE



BENEFITS OF SMART CARDS ON OPEN AND SECURED PLATFORM STANDARDS

- Create more IT Business Opportunities
 - Customers driven MPC applications
 - More demand for cards and readers
 - Independent applications
 - Critical Mass for Lower Cost
- Better Security
 - Multi-vendors Security
 - Interoperability protocol

SIRIM Berhad - YOUR PARTNER TO GLOBAL TRADE



INFORMATION TECHNOLOGY - OPEN PLATFORM AND SECURITY

Support from industry

- Card manufacturers
- Smart card readers
- Applications
 - Biometric
 - Parking system
 - e-purse
 - Medical

SIRIM Berhad - YOUR PARTNER TO GLOBAL TRADE



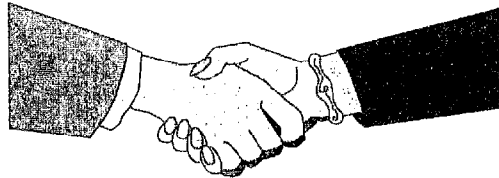
I.T. PROGRAMMES

- National CAD / CAM
- AISDEL
- MATIC
- I.T. Hardware Design and Development
- Open Platform and Security for Smart Cards
- Smart Cards Applications
- I.T. Security Laboratory
- Multimedia Laboratory
- Y2K Readiness Certification
- Malaysian Standards in I.T.

SIRIM Berhad, YOUR PARTNER TO GLOBAL TRADE



THANK YOU



SIRIM Berhad, YOUR PARTNER TO GLOBAL TRADE

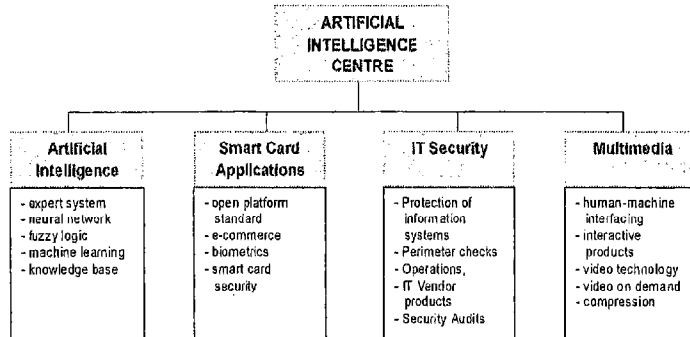
Confidential

Business Plan 2000

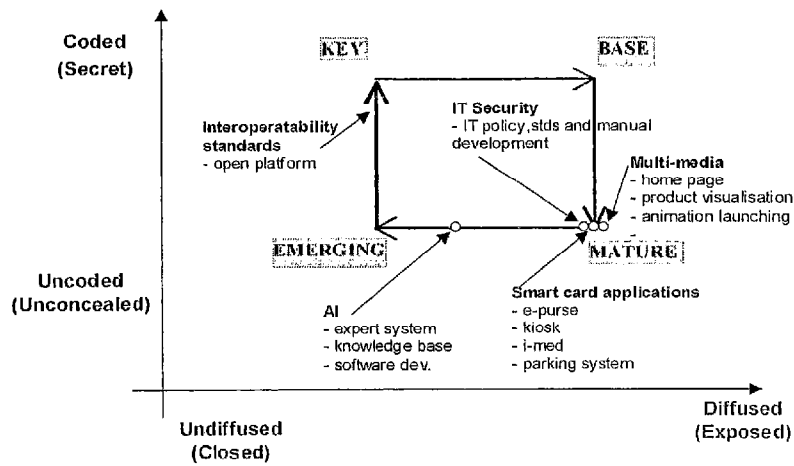
Blueprint for AIC

1. Objective of AIC
2. Technology focus of AIC
3. Tools used
 - the C-space (to map the position of AIC)
 - the product positioning (to map types of NPD projects)
 - the Total design (the product dev. process to inculcate cross discipline culture)
4. New products of AIC
5. Near future projects
6. Current manpower
7. Equipment needed
8. AIC and others
9. Conclusion

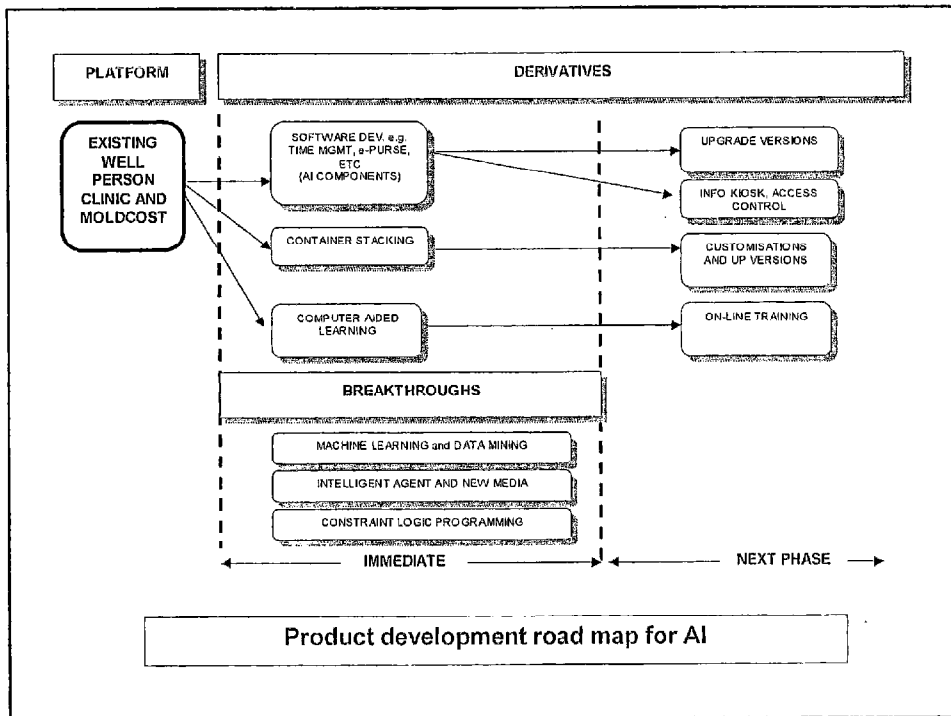
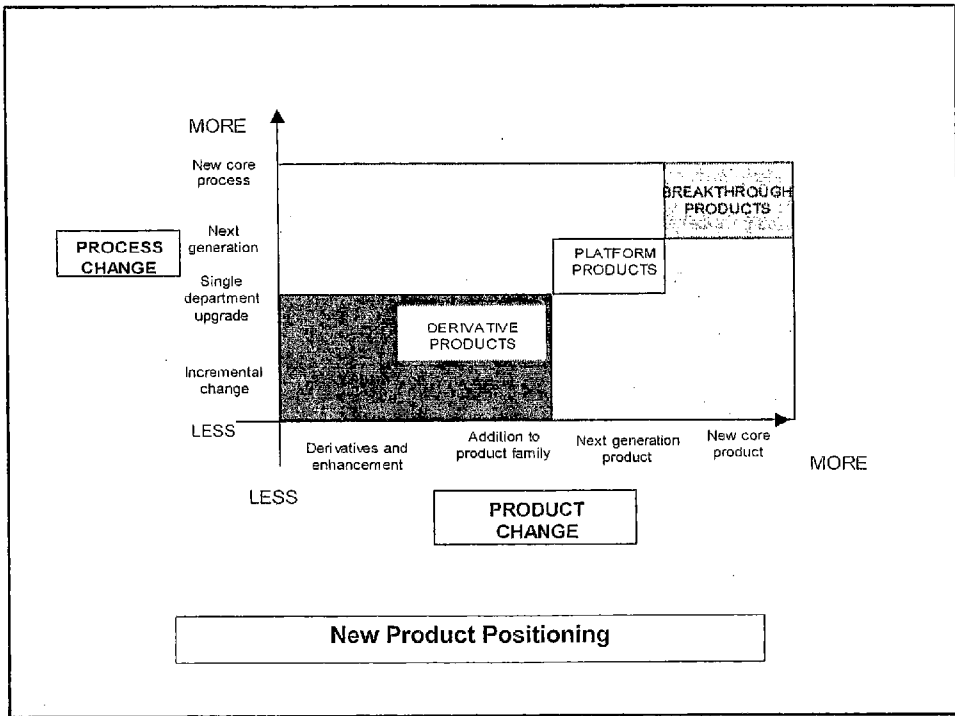
Objective:
Innovation in
emerging and key
technology of AI,
S/Card, IT Security
and Multimedia

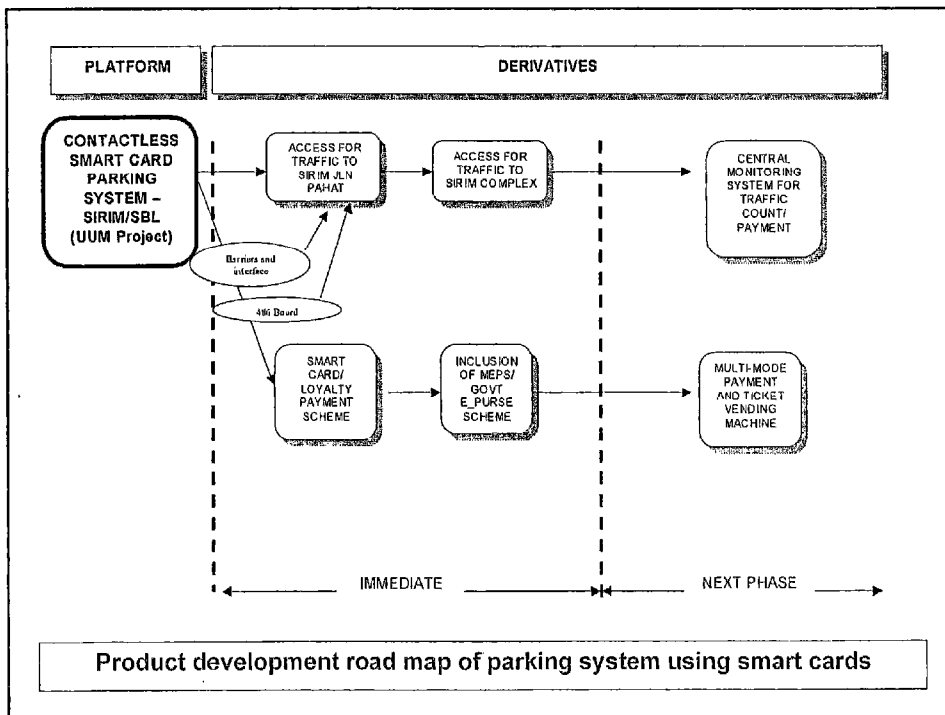
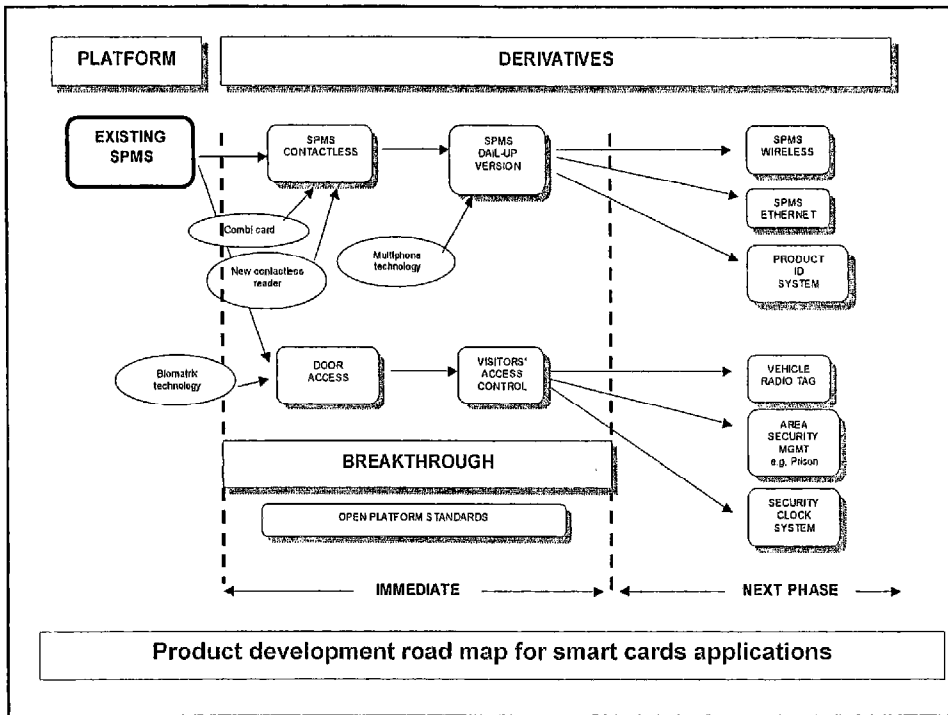


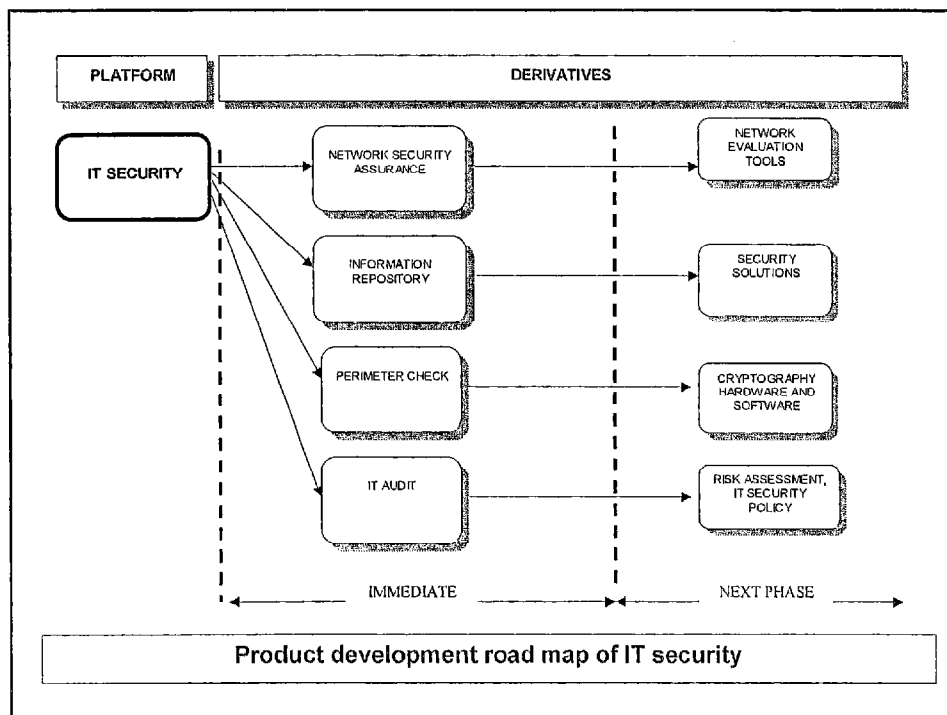
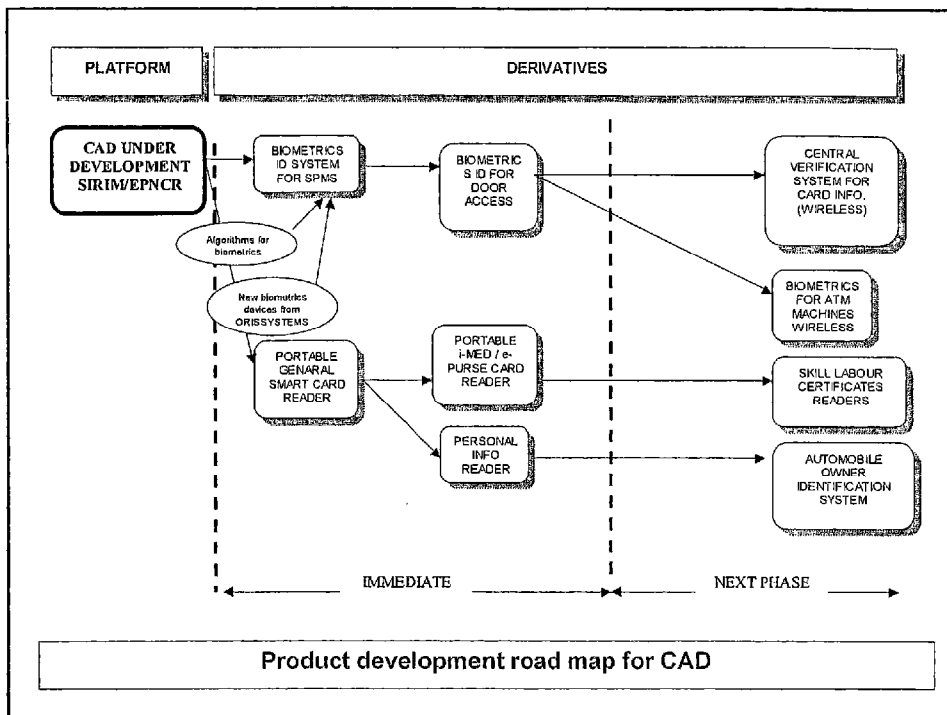
Emerging and Key Technology Areas of AIC



The C-space

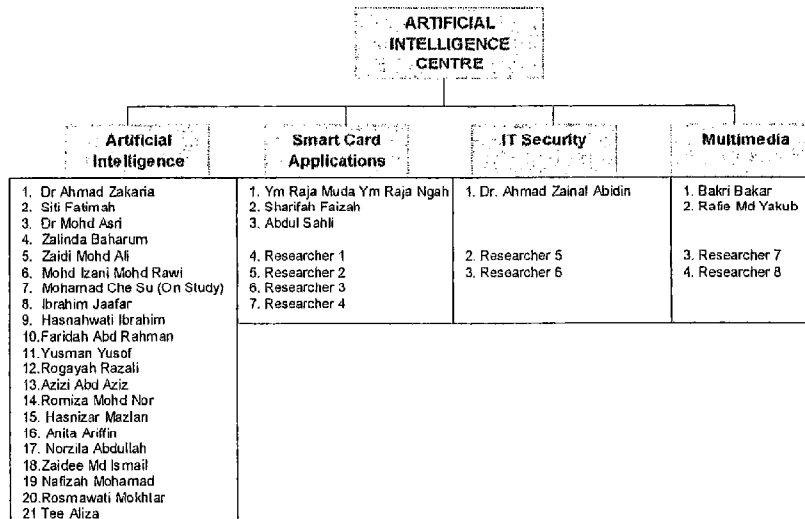






	Commercial	Est. cost (M)
1	Development of CAD	
2	SPWB for TNB	
3	Pilot scale smart cards applications	
4	Development of smart card system for parking	
5	E-government IT security	
6	Smart cards systems for KLGCC	
7	Integrated fault control system	
8	Smart card system for skilled labour	
9	Information broker framework for MSC applications	
IRPA		
10	Open platform framework	
	TOTAL	6.06

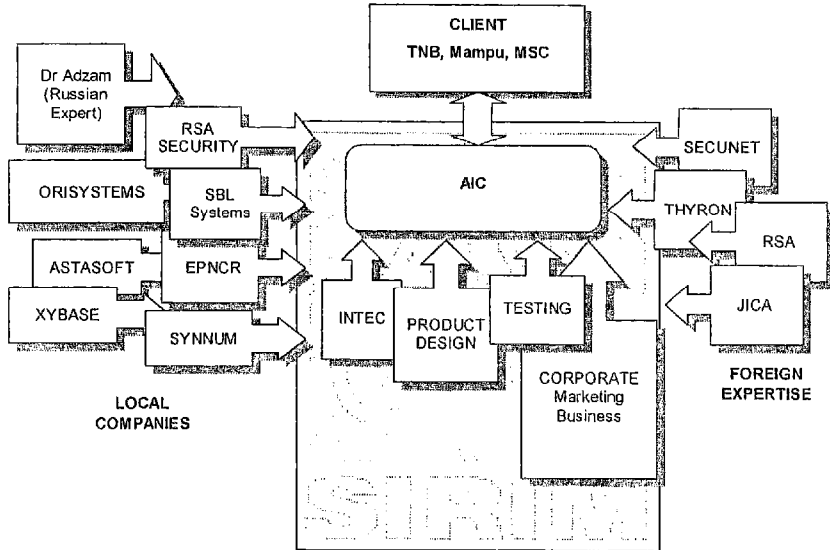
AIC Projects



AIC Manpower

Equipment
and
Cost Estimates

Description	Estimates
IT Security	
Security monitor 24hr burglar alarm for NT	5,000
Firewall with central management overview of mission critical in networking applications	20,000
Internet scanner	15,000
Encryption programs and utilities	50,000
Smart card personalisation printer	100,000
Communication equipment	500,000
Super parallel computer	250,000
VR and related technology equipment	550,000
• Motion capture system	
• Texture mapping generator (2 sets)	
• Maya digital D surface creation set (2 sets)	
• VR contents and development system	
General purpose	
Scanner	2,000
TOTAL ESTIMATES	3,290,000



AIC / SIRIM - LOCAL - FOREIGN and CLIENT

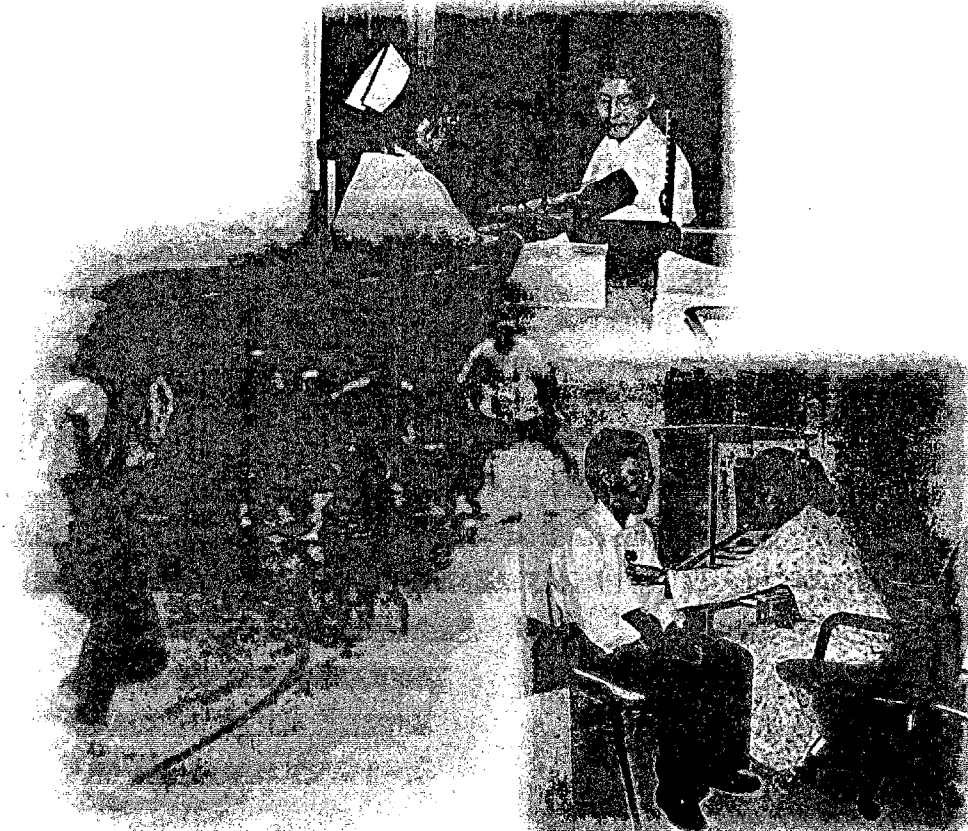
CONCLUSIONS

1. The migration path of AIC is laid out in the C-space
2. Initial milestones of the road maps of products to be developed have been initiated and more need to be explored
3. AIC needs big support from many parties i.e. hardware (INTEC), design (PRODUCT DESIGN), local and foreign companies
4. There need to be more consolidated effort in the next millennium

AN APPROACH USING ARTIFICIAL INTELLIGENCE (AI) TECHNIQUE
.....
FOR HEALTHY NATION

WPPSS

Well Persons' Program Support System

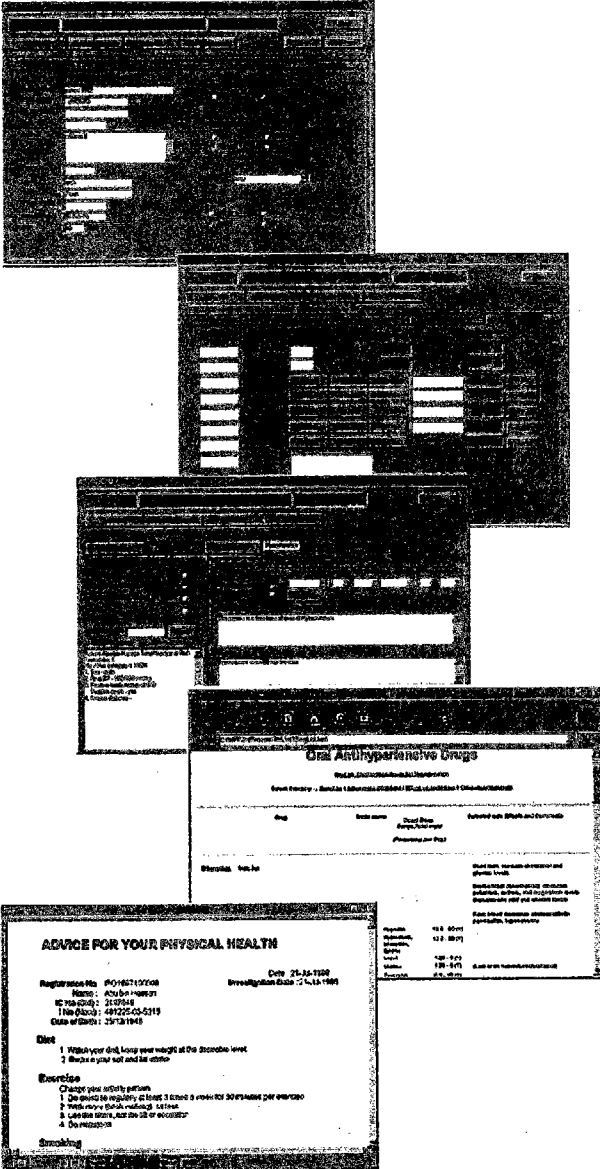


AISDEL, SIRIM Berhad

WPPSS

INTELLIGENT

WPPSS is an intelligent clinical information system that suggest a diagnosis, decision and advice based on patient biodata, Coronary Artery Disease (CAD) risk factor, cancer, physical examination and laboratory investigation.



ASSISTANCE

WPPSS offers assistance to doctors, nurses and paramedics in performing screening for CAD risk factor and early detection of cancer.

PATIENT MANAGEMENT & MONITORING

WPPSS allows you to provide better management of your patient who is suffering from hypertension, diabetes mellitus, hyperlipidemia, obese and smoking habits, monitoring of high-risk patient intervention and produce a variety of statistical analysis reports.



AI System Development Laboratory

SIRIM Berhad

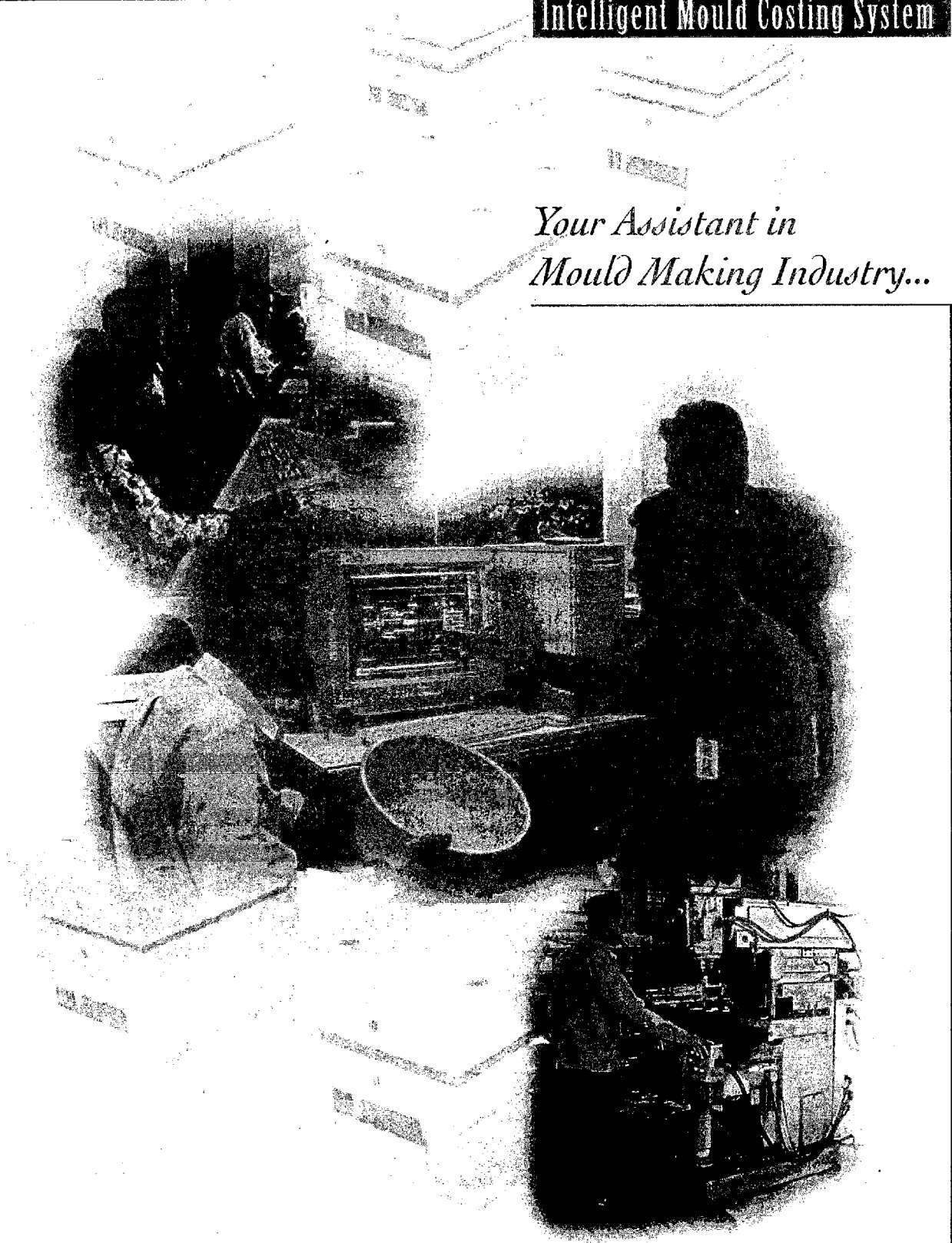
1, Persiaran Dato' Menteri, Section 2
P.O. Box 7035, 40911 Shah Alam, Selangor
Tel : (603) 556 6679 Fax : (603) 556 6799
Email : ahmad_zakaria@sirim.my



moldcost

Intelligent Mould Costing System

*Your Assistant in
Mould Making Industry...*



AISDEL, SIRIM Berhad

moldcost

Intelligent Mould Costing System

What is MOLDcost

MOLDcost is an expert system that will suggest the optimum mould cost based on its plastic part requirement. This system assists non-experts to perform the tricky business of mould costing.

Benefits

- Faster & accurate costing for your mould quotation
- Cost reduction & time saving
- Comprehensive & updated knowledge base

Features

- User input via Manual Data Input (MDI) or CAD Drawing*
- Auto generate process planning & machining time
- Suggest mould base size & mould insert material
- Provide simulation facility for cost recalculation
- Print out standard quotation for client
- Support major standard mould base database
- Support 2-plate & 3-plate mould*

System Requirement

- Windows 95 & above
- Unix Workstation
- Object IQ (Expert system tool)
- Oracle 7.3.2 (Relational database tool)

The image displays several overlapping windows from the MOLDcost software. The top window shows a 'Product Information' and 'Mould Basic Information' section with fields for product name, material, and mould type. Below it is a 'Result' window showing a cost breakdown table. The middle window is 'Input Part Specification' for a 'Wing Cap', with fields for dimensions, material (PETP), and production volume. The bottom window is 'Mould Basic Specification' with fields for mould type (2-Plate), number of cavities (8), and insert type (Rectangular).

Item	Unit	Cost
Mould Base Cost	RM	14070
Machining Cost	RM	4500
Component Cost	RM	87813
Machining Base Cost	RM	10270
Mould Tool Cost	RM	9120
Mould Assembly Cost	RM	32770
Total Mould Cost	RM	117960



AI System Development Laboratory
SIRIM Berhad
 1, Persiaran Dato' Menteri, Section 2
 P.O. Box 7035, 40911 Shah Alam, Selangor
 Tel : (603) 556 6679 Fax : (603) 556 6799
 Email : ahmad_zakaria@sirim.my



* CAD Drawing of 3-plate mould - Future enhancement

Copyright ©1998, AISDEL, SIRIM Berhad

Windows is a registered trademark of Microsoft Corporation. UNIX is a registered trademark in the US & other countries. Object IQ is a registered trademark of Hitachi Ltd. Oracle is a registered trademark of Oracle Corporation. Other company, product & service names may be trademarks or service marks of others.