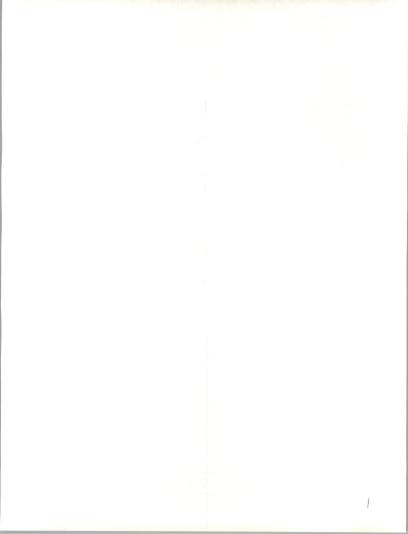
Support in the 1990's: Where We are Heading

Peter A. Cunningham President, INPUT

Notes	



Support? or Services? or Support Services?

Notes	

Support

- Maintenance
- Training (multilevel)
- Documentation
- Clarification (hotline)

Notes	

Services

- EducationOptimization
- Enhancement Consulting

- LogisticsCustomization
 - · Installation/conversion
 - Customer interaction

Notes	

Software Changing from a Product to a Service

INPUT

Characteristics of Service

- Recurring revenues
- Continuous use
- · Pay by use

Notes		

U.S. Software Market Trends

- Targets
 - 1970s, products
 - 1980s, support
 - 1990s, services/solutions

Notes	

U.S. Software Market Trends

- · Away from standard
 - Towards uniqueness
- Supported by standards

Notes		

Worldwide Software Products Markets

	1990	1995
Total	55	135

Market Size (\$ Billion)

INPUT ACCOR- 11

U.S. Software Products Markets

	1990	1995
Applications	17	33
Systems	17	35

Market Size (\$ Billion)

INPUT ACCOR- 10

Software Support Markets Europe

	1989	1994
Systems Products	13	20
Applications Products	12	16
Proportion of Market (Percent) INPU		

Notes

ACCOR- 21

Software Support Markets U.S.

	1989	1994
Systems Products	23	25
Applications Products	15	20

Proportion of Market (Percent)

Notes	

Problem Identification

- 63% "no problems"
- Response time
- · Repair and fix times
- Software performance and functionality

Notes	

Software Support Ratings

0" :	User	Vendor
Offering	Rating *	Rating *
Centralized support	3.1	4.5
Free training	2.6	4.2
Purchased training	2.0	3.9
Custom software	2.1	4.2

* 1 = Least Value; 5 = Greatest Value

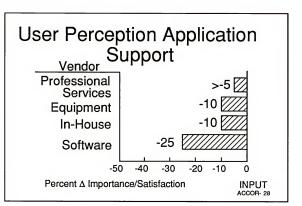
INPUT ACCOR- 23

Software Support Ratings

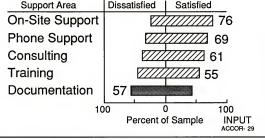
	User	Vendor
Offering	Rating *	Rating *
Consulting	2.7	3.8
S/W fixes	3.3	4.6
Upgrades	3.6	4.5

^{* 1 =} Least Value; 5 = Greatest Value

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Software Support Satisfaction by Support Area Support Area Dissatisfied | Satisfied | Sa



Notes	

User Training Requirements

- Increase
 - 47% of respondents
 - Software complexity/sophistication
 - Lack of in-house time or skills
 - Introduce new users

Notes		

User Training Requirements

- · Remain the same
 - 36% of respondents
 - In-house support supplement
 - Third-party providers

Notes	

User Training Requirements

- Decrease
 - 17% of respondents
 - Better documentation
 - Software user-friendly qualities
 - Market training products
 - Third-party providers

Notes		
L	 	

Futures

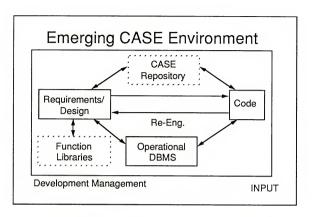
- Embedded diagnostics
- Problem/use data bases
- Expert system resolution
- CBT

Notes	

Services and Product Markets Blurring

- Professional services use of
 - CASE
 - Kernels

Notes	



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Potentially, Biggest Impact Since System/360

- Repositioning of information systems departments within the corporation
- Rearrangement of vendors, products and strategies

Notes	

Applications Software Products Impact

- Build (rebuild) using standard CASE tools
- Potentially, continuum of totally standard to totally customized applications

Notes			
	•		

Applications Software Products Impact

- · Customizing wide open
 - Software vendor
 - Systems integrator (may be identical)
 - In-house

Notes	

Less Differentiation in System Development

- Standard methodologies and tools reduce skill gaps:
 - In-house vs. vendor
 - Vendor A vs. vendor B
- Hardware/software without adequate CASE support may be much harder to justify

Notes		

Technology Application to Software Support/Services

- Networks
- Parallel view
- · Expert systems
- · Embedded documentation
- · Embedded training
- · Data/information bases

Notes		
		!

Technology Application to Software Support/Services

- Embedded software
- Voice services
 - 800 numbers
 - 900 numbers
- Image/fax services
- Remote printing

Notes	

Contact Trends

- Bulletin boards
- Newsletters (electronic and paper)
- User meetings (electronic and physical)

otes	

Support Pricing

- 'Bundling' with licenses
- 'Bundling' with systems maintenance

Notes	

Keys to Success

- Use of technology
- Pricing
- · Customer sensitivity
- Services (solution) orientation
- Standards

Notes	

Customer Satisfaction

- Proactive not reactive
- Timely (event driven)
- Objective

otes	

Proactive vs Reactive

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Notes

AS CORP. MKTG. ACCOR 10/30 for Peter SUPPORT IN THE 1990'S! WHERE ARE WE HEADING PETER A-CUNNING HAM PRECIDENT, INPUT SUPPORT ? SERVICES ? Support services? PROACTIVE VS REACTIVE. FORWARD CHANGING FROM A CHARACTERISTICS OF SOMUCE - RECURRING REVENUES - CONTINUOUS USE - PAY BY USE.



SUPPORT - TIAN NOTAN NANCE - TRAINING (RULTI-LEVEL) - DOCUMENTAN ON - CLAMFICATION (HOTHING) EXEXICES 100 c Anon DOTINITATION KN HANCEMENTS CONSULTING USORGROUPS Ustryen Intenderson BY ULLETIN BOMADS Inputation/ conversion 900 samus 800 Survices. WIEGRATION CUSTEM ZADOW LOGISTIES US SOFTWARE MARKET TRENDS · ALMY FROM STANDARD * TOWARDS UNIQUENESS. · SUPPORTED AT STANDARDS TELESTOROGY MAKES POSSIBLES. Nosbeta - voice sony PARTILE MONS MACE FAY SAVICOS Explore Systems. externance services MICHT WEND POCUMENTANON DATA/INFOM MASSON BASES - EN BEDDED SOFTWARE IN INFORMATION



U.S. SOFTWARE MARKET TRENDS

- . TAKGETS
 - 1970s , PRODUCTS
 - 1980s, SUPPORT
 - 1990 , Serences / SOLUTIONS.

SEWICES.

DENCATION

DENHANCEMENT

CONSULTING

CUSTOMIZATION

LOGISTICS

INSTALL OF ON/ CONVOCASION

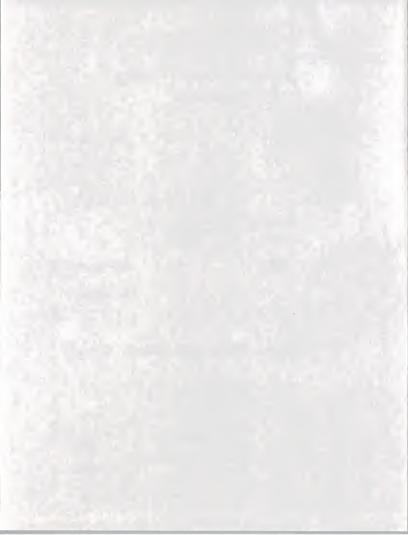
CUSTOMOR INTENTENTON

- CUSTOMEN (WIENACTION)
- SULETIN ROMANDS



MARKET U.S. SOFFWARD PRODUCTS MANNOTS MERKET SRE(\$ BILLIAN) 1990 1995. (0) 175 33 APPLICATIONS 35 SYSTERE (WORLD WIDE SOFTEMENTS PRODUCTS MARKETS PARKET STON & BILLICA 1995 135 Applications US SUPPORT / REVENUES SERVICES MAKEUTS Senses PRIDUCT TARLET SUPPORT TARGOT 1580

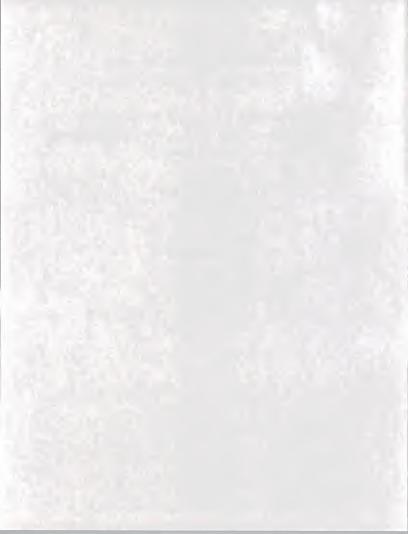
PARLET 1990

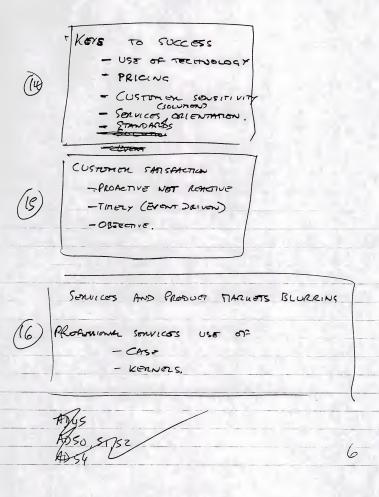


SOFTWANT SWIFT / SONVICES

(12) NETWORKS (PAINCEL VION)

- · Engender DOCUMENTHROW
 - " EMBEDDED TRAINING
 - · DATA /INFORMATION BASES
- EMBEDDED SOFTWARE
 - · VOICE SERVICES
- 900 NUMBERS
 - · INAGE/FAX SERVICES
 - · REMOTE PRINTING.







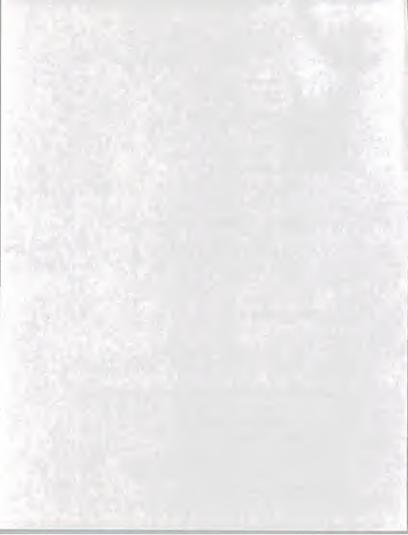


FUTURES

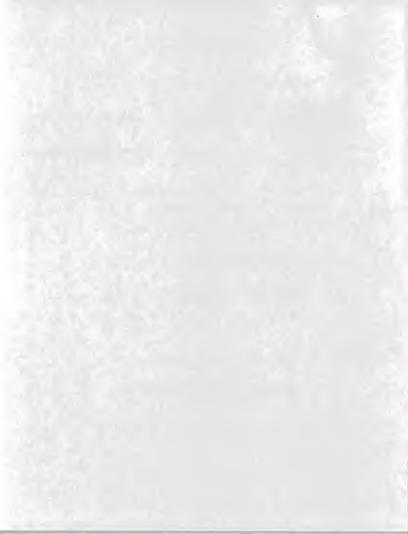
- · EMBEDDED DIAGNOSTICS
- · PROBLEM JUSE DATA BASES
- · EXPENT SYGTEM RESOLUTION
- · CBT.



SUSE II - 13 MPCS. WHIRIT V-3. EXHIBIT V-6 3 charte PROBLEM DENTECATION . 63% No PRODUME · ROSPONSE TIME REPAIR MD FIX TIMES · SOFTWARE PERFORMINE 8 FUNCTIONALITY, 1989 1989 1.18 7.69=887 \$75765 3.83/1885 466 665/473-538 APPLICATIONS SUPPORT PRICING. · BUNDLING LITH LICENSES . BUNDLING WITH SYSTEMS MAINTHINANCE CONTACT TRUNDS · BULLETIN GENEOS Nowscerrors (neurous Appex) USON MOOTH NG S (ELECTRONICE RHYSICAL) THE THAT BASS.



SOFTWARE SUPPORT MARKETS EUROPE PROPORTION OF MARKET SYSTEMS PREDUCTS APPLICATIONS PROJUCTS SOFTWARE SUPPORT MARKETS PROPORTION OF MARKET 1989 1994 是 23% 257.25% STETULS PHODUCIS 15%. 20%. APPLICATIONS PRODUCTS



REPORTS STISE II-13 V
FRISH PS II-3. V-3, V-6 (3CHANTS) BIBLE/WH-20 AD 45 AD 50, 51, 52, 54

