



아시아 리터너블 파렛트 시스템 구축의 필요성 및 APSF 운영방안



한국파렛트컨테이너기술연구소 소장
명지전문대학 산업시스템경영과 교수
공학박사 엄 재 균

본 원고는 지난 2010년 11월 11일 지식경제부 기술표준원에서 진행된 2010년 아시아 유닛로드시스템 컨퍼런스 주제발표 원고로 아시아 리터너블 파렛트 시스템 구축방안과 그에 따른 APSF 운영방안을 설명하고 있습니다.

- 편집자 주 -

목 차



왜 필요한가 ?

물류의 가치가 변하고 있다..?

100 기업의 생존율

KPCA
Korea Paper and
Container Association

1955 yr	1965 yr	1975 yr	1985 yr	1995 yr	2004 yr
100	13	12	9	11	7
	100	25	17	18	8
		100	38	29	20
			100	61	29
				100	47
					100

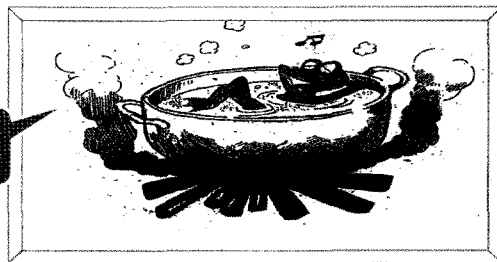
· 지난 30년간의 기업 생존율 : 미국 32%, 한국 20%

왜 시장에서 사라지는가..?

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Container Association

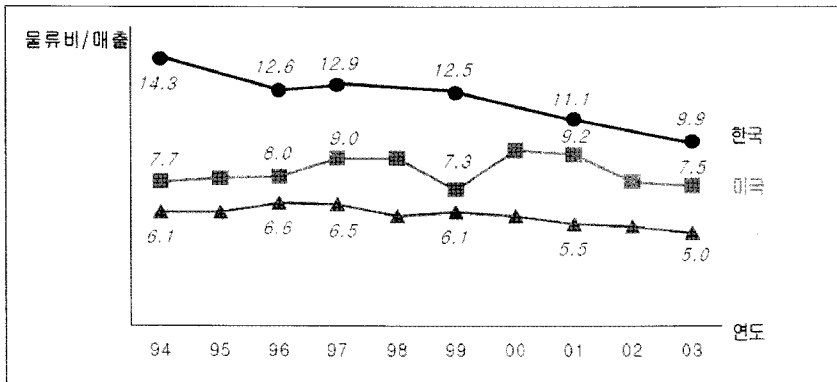
- ◆ 국내시장의 한계
- ◆ 시장의 글로벌화
- ◆ 시장 수요의 변화와 빠른 의사결정 필요
- ◆ 의식 변화가 요구됨

모든 환경이 변하고
있는데 개구리는...



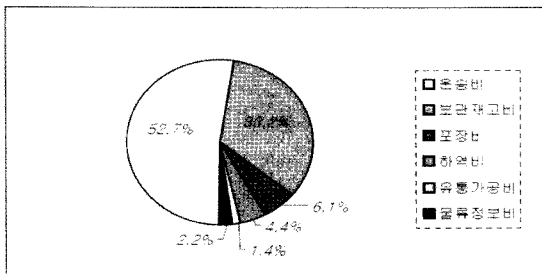
KPCA
Korea Pallet and
Container Association

1 한미일 매출액 대비 물류비 비교



KPCA
Korea Pallet and
Container Association

2 물류비 상세내역



물류비 절감

SCM(Supply Chain Management)
Standardization and Pooling
Information
Outsourcing



Why should we?

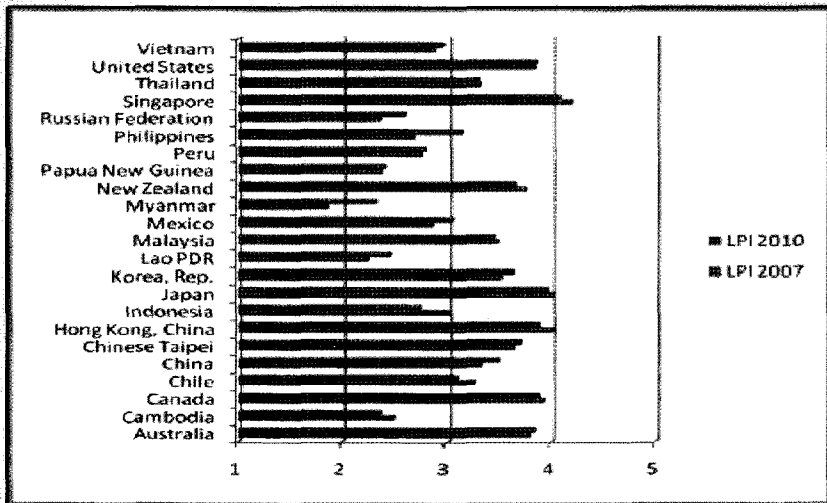
아시아 파렛트 시스템이 왜 필요한가..?

물류성과지수 (Logistics Performance Index, World Bank, 2010)

Int'l Rank	Country	LPI	Lead Time/ Customs	Infrastructure	International shipments	Logistics competence	Tracking & tracing	Timeliness
1	Germany	4.11	4	4.34	3.66	4.14	4.18	4.48
2	Singapore	4.09	4.02	4.22	3.86	4.12	4.15	4.23
3	Sweden	4.03	3.88	4.03	3.83	4.22	4.22	4.32
4	Netherlands	4.07	3.98	4.25	3.61	4.15	4.12	4.41
5	Luxembourg	3.98	4.04	4.06	3.67	3.67	3.92	4.58
6	Switzerland	3.97	3.73	4.17	3.32	4.32	4.27	4.2
7	Japan	3.97	3.74	3.95	3.66	3.92	4.13	4.37
8	United Kingdom	3.95	3.83	4.01	3.31	4.13	4.22	4.29
9	Belgium	3.94	3.86	4.22	3.35	3.85	4.1	4.35
10	Norway	3.93	3.86	3.76	3.7	3.82	4.02	4.47
11	Ireland	3.89	3.86	4.08	3.41	3.92	4.09	4.08
12	Finland	3.89	3.83	4	3.67	3.83	3.94	4.04
13	Hong Kong - China	3.88	3.71	4.03	3.24	3.99	4.01	4.41
14	Canada	3.87	3.68	4.15	3.21	3.92	4.17	4.19
15	United States	3.86	3.58	3.99	3.46	3.83	3.94	4.38
16	Danmark	3.85	3.63	4	3.3	3.87	4.01	4.37
17	France	3.84	3.68	3.78	3.78	3.77	3.87	4.16
18	Australia	3.84	3.49	3.68	3.78	3.7	3.83	4.08
19	Austria	3.76	3.71	3.62	3.64	3.65	4.04	3.95
20	Taiwan	3.71	3.64	3.54	3.36	3.54	3.67	4.17
21	New Zealand	3.65	3.38	3.72	3.21	3.74	3.83	4.08
22	Daily	3.64	3.49	3.81	3.48	3.53	3.58	3.94
23	Korea, Rep	3.64	3.47	3.58	3.11	3.62	3.96	4.12
24	United Arab Emirates	3.63	3.31	3.25	3.42	3.27	3.6	4.16
25	Spain	3.63	3.49	3.49	3.49	3.49	3.49	3.49
26	Czech Republic	3.51	3.22	3.42	3.26	3.59	3.73	3.57
27	China	3.49	3.12	2.98	3.22	3.26	3.45	4.52
28	South Africa	3.46	3.12	3.6	3.17	3.5	3.39	3.77
29	Malaysia	3.43	3.05	3.36	3.05	3.36	3.63	3.85
30	Iceland	3.44	3.27	3.05	2.87	3.73	3.16	3.97
31	Israel	3.41						
32	Bahrain	3.37						
33	Lebanon	3.34						

Source: Trade Logistics in the Global Economy, The World Bank, 2010

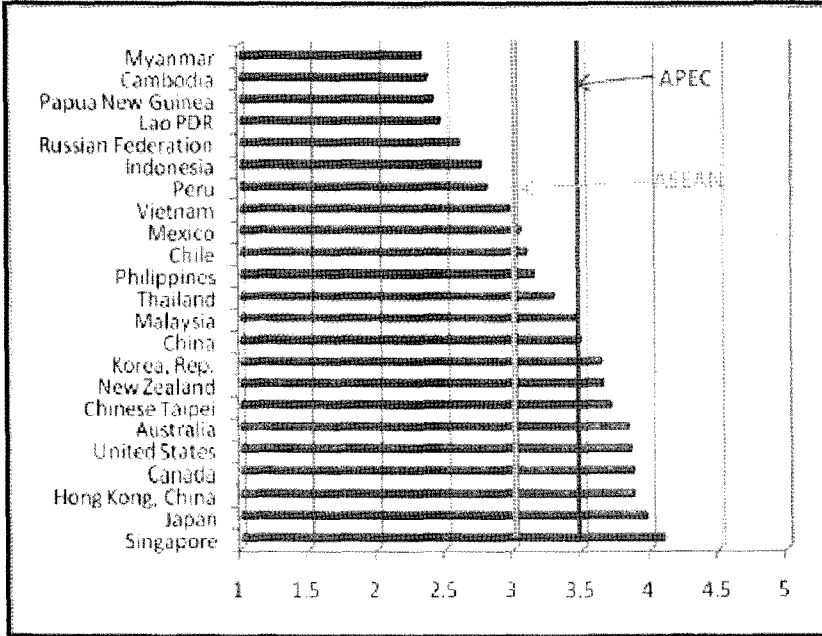
물류성과지수 비교: LPI 2007 vs. 2010 (APEC + ASEAN), World Bank



Source: Trade Logistics in the Global Economy, The World Bank, 2010



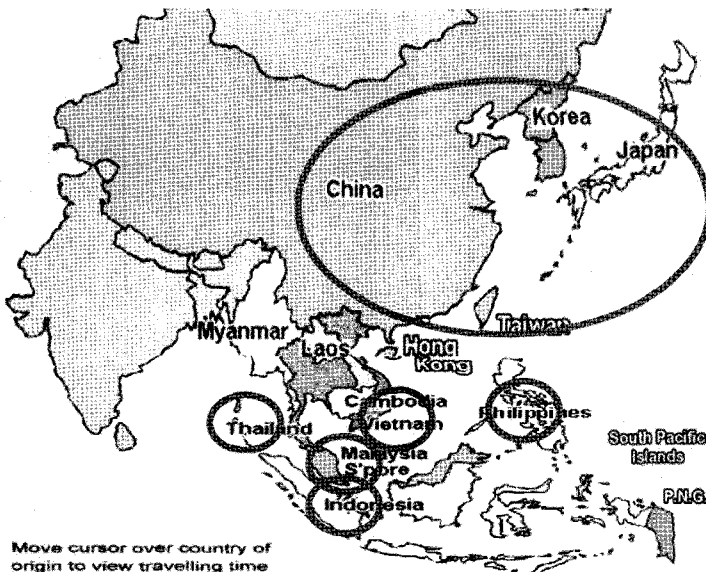
물류성과지수 비교 (APEC vs. ASEAN 2010, World Bank)



KPCA

Source: Trade Logistics in the Global Economy, The World Bank, 2010

한중일 파렛트 공동 사용시스템

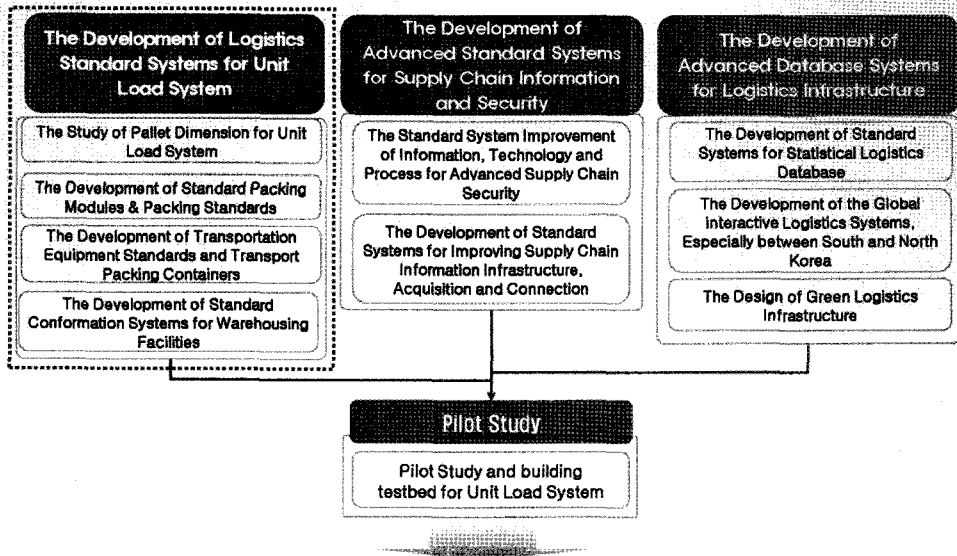


Move cursor over country of origin to view travelling time

- 왜 국제표준이 중요한가?
 - 기술무역장벽(Technical Barrier to Trade, NTB)
 - 품질 보증
 - 안전 문제
 - 호환성

It's all about standardization

국가물류표준시스템 개요



국가물류표준시스템

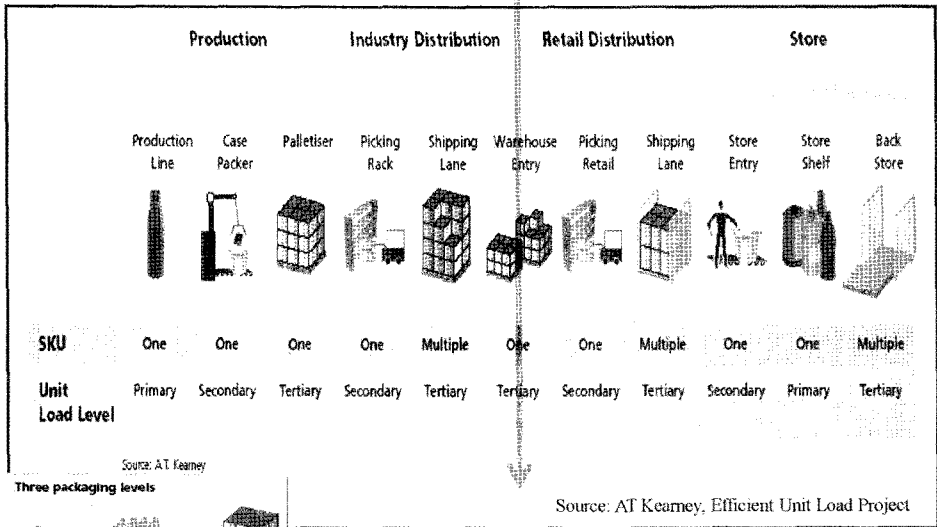
Source: Korea Railroad Research Center, 2009



물류는 글자 그대로 막힘 없이..

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유닛로드 Process: 롤컨테이너 표준의 중요성



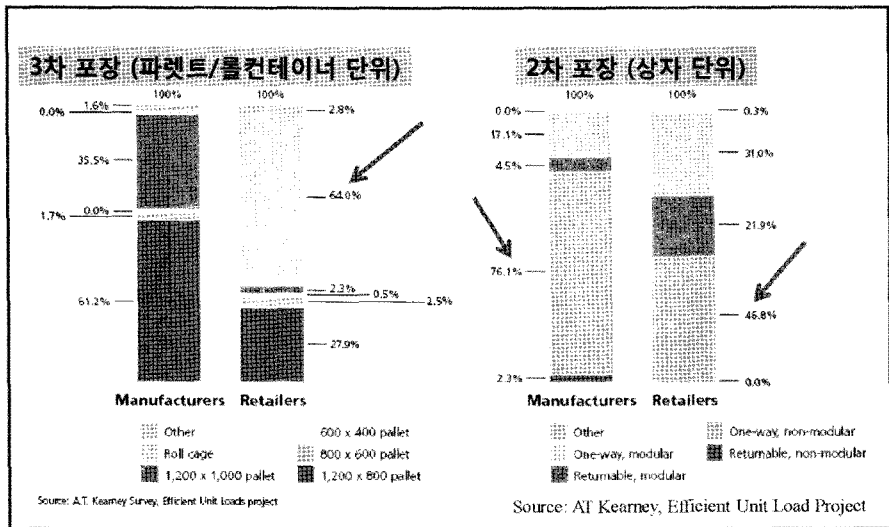
Three packaging levels



막힘 없이 연결되어야..

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롤컨테이너 표준과 플라스틱 회수용기의 중요성





효과적인 유닛로드시스템

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비용 절감 효과

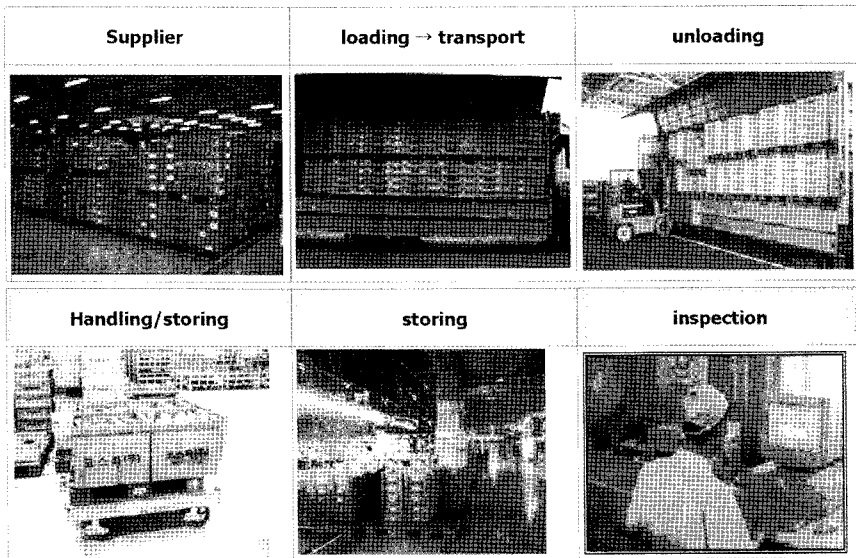
Sources of savings potential ¹	Manufacturer %	Retailer %	Total %
Better utilisation of transport cube	0.08	0.17	0.25
Warehouse storage, handling and assortment creation	0.05	0.17	0.22
In-store handling and shelf replenishment	-	0.47	0.47
Packaging and materials management	0.17	-	0.17
Other ²	0.03	0.06	0.09
Total EU chain impact	0.33	0.87	1.20

¹ % of retail sales price, excl. VAT
² Loss & damages, cost of capital, administration, miscellaneous
 Source: AT Kearney, Survey, Efficient Unit Loads project

Source: AT Kearney, Efficient Unit Load Project

유닛로드시스템 흐름

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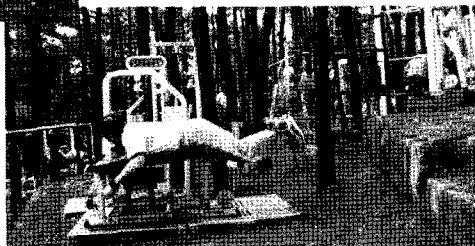
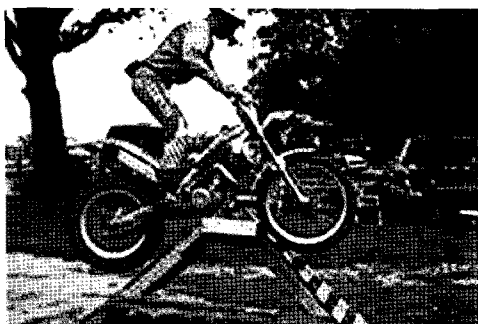
유닛로드시스템 흐름

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회수되지 않는 파렛트는...?

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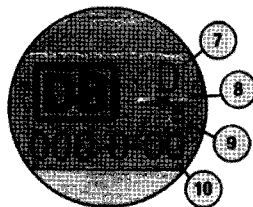
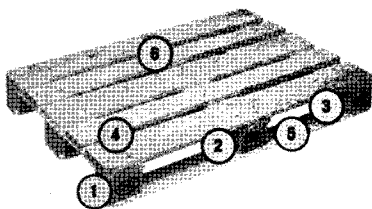
모델이 있는가..?

European Pallet Association..?

EURO 파렛트

- 전세계적으로 가장 규모가 큰 풀시스템
- 엄격한 인증제도 - EPAL & EURO marking and Number
- 입회비 보증금 5,500 Euro (약 850만원)
- 품질검사비용 1회당 550 Euro (약 85만원)
- 검사비용 내역
 - 수준 1은 생산단위마다 필요할 때 검사를 받아야 하는 생산공장: 표준에 의거하여 샘플검사를 하여 필요한 Staple를 공급 (Staple 수량이 생산가능 수량임)
 - 수준 2는 자체검사를 실시하여 불시에 검사기관으로부터 검사
- Staple 은 검사기관이 발급하고 배포
- 연회비 1200 Euro(약 180만원)
- 생산 매수당 0.03 파운드(약 55원)를 National Committee인 영국 EPAL에 납부하면 영국 EPAL 그 중 0.02 파운드(약 36원)를 본사에 송부

파렛트에 어떻게 마킹을..?



1. Branding of the European Pallet Association EPAL
2. Branding of a European Railway
3. Branding of the European Pallet Pool EUR
4. Standardised nailing pattern
5. Chamfered bottom boards
6. No moulds

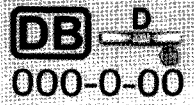
7. country code
8. EPAL control quality staple
9. EPAL repair marking nail
10. manufacturer code - year - month

Source: www.epal-pallets.org

Marking and Certification System



Left corner block



Central block

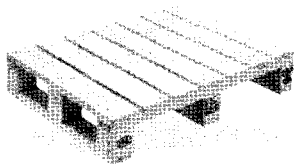


Right corner block

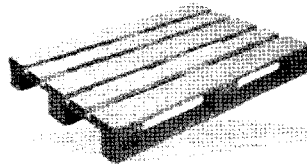
A	Austria	B	Belgium
BG	Bulgaria	BIM	Bosnia Herzegovina
BY	Belarus	CH	Schweizert and
E	Spain	F	France
GB	Great Britain	GR	Greek
GUS	Belarus	H	Hungary
I	Italy	IRL	Ireland
LT	Lithuania	LV	Latvia
NL	Netherlands	PL	Poland
PT	Portugal	RO	Romania
RUS	Russia	SK	Slovakia
SZ	Slovenia	TR	Turkey
UA	Ukraine		

Source: www.epal-pallets.org

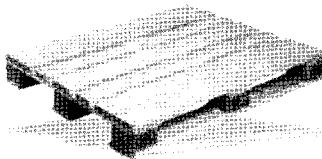
EUR-Pallets



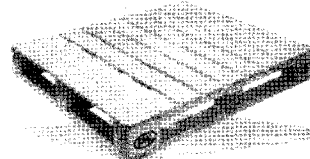
800 x 600 mm Pallet EUR 6



800 x 1200 mm Pallet EUR



1000 x 1200 mm Pallet EUR 3



1200 x 1000 mm Pallet EUR 2

Source: www.epal-pallets.org

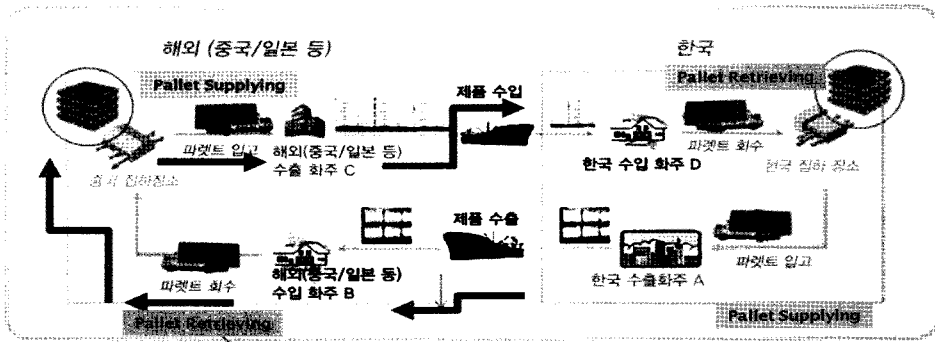
III

우리는 어떻게?

APSF Marking and Certification System..?

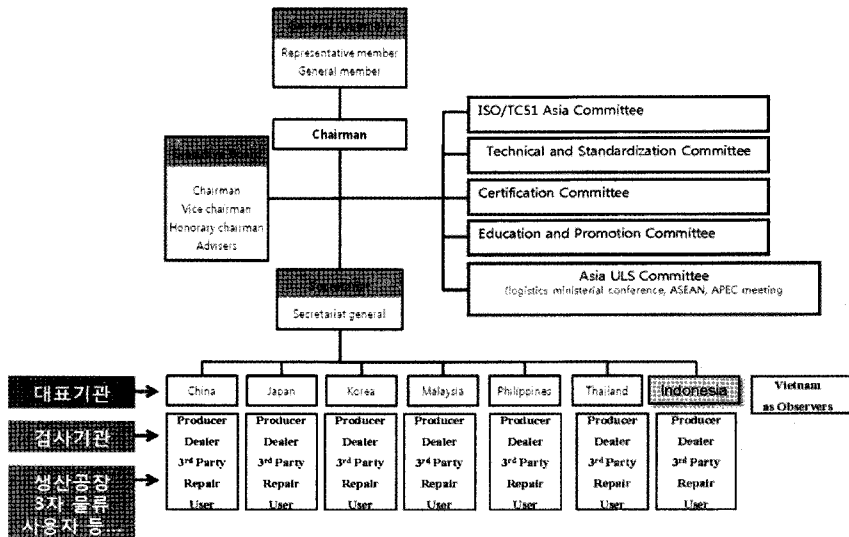
한중일 및 아시아 파렛트 리터너블시스템

- 한중일 3국이 교역시 리터너블파렛트 시스템을 구축, 물류비 절감
- 아시아 국가간의 물류시스템으로 확대



Source: Northeast Integrated Logistics Market, Korea Maritime Institute, 2009

APSF 조직도





Korea

대표기관

한국파렛트컨테이너협회
 173 Dohwa-dong, Mapo-ku, Seoul, Korea
 TEL : + 82-2-715-1281~2,
 FAX : 02-715-1283
 E-mail: pallet@kopal.or.kr

검사기관

**한국파렛트컨테이너기술
 연구소**
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 Chungchung Namdo
 Tel: + 82-2-7151281
 Fax: +82-2-7151283

지정 생산공장

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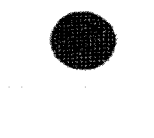
China

**China Federation of Logistics &
 Purchasing**

No.25, Yuetan North Street, Xiecheng District,
 China Post code: 100834
 E-mail: cflp@china.com
 cflpzhm@souhu.com
 Telephone:(010) 68391421 68391423
 68391424

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Japan



Japan Pallet Association

東京都中央区銀座2丁目14番12号 東銀
 ビル3F
 TEL : 03-3541-4774 |
 FAX : 03-3544-0460
 E-Mail : info@jpa-pallet.or.jp

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Indonesia

대표기관

**Association of Indonesia Wood
 Packaging Service**
 Gedung Agnesia Lt. 5 Room 502 Jl. Pemuda 73B,
 Jakarta
 TEL : +62-21-4788-1997
 E-mail: apjss_yusuf@yahoo.com

검사기관

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지정 생산공장



Malaysia

SIRIM Berhad, Standards Development
 1, Persiaran Dato' Menteri Section 2 40911 Shah
 Alam, Malaysia
 TEL : + 60-3-5544-6000
 FAX : +60-3-5510-8095
 E-mail: aslina@sirim.my

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Philippines

Pallet Business Association of the Philippines
 c/o Dumagat Ventures Ent. Inc. Bagong Silang,
 Cavusao agnuna, Philippines, 4025
 TEL: +63-49-531-0566
 E-mail: pbap_info@yahoo.com

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Thailand

Thai National Shippers' Council

C.Lumpini Tower Bldg. Rama IV Road, Sathorn,
 Bangkok 10120
 TEL : 02-679-7555 |
 FAX : 02-679-7500
 E-Mail : wittawatit@tnc.com

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**APSF Marking and Certification System을 구현하기
 위해 무엇을 준비해야 하는가 ?**

1. APSF 인증을 위한 기술규정 및 검사요건 (적합성 평가)
2. APSF 생산공장 인증을 위한 가이드 라인
3. 목재 파렛트 생산업체를 위한 품질보증 매뉴얼
4. 플라스틱 파렛트 생산업체를 위한 품질보증 매뉴얼
5. 아시아 평파렛트 표준
6. 아시아 유닛로드시스템 통칙 표준
7. 아시아 상자형 파렛트 표준
8. 아시아 롤컨테이너 표준

II

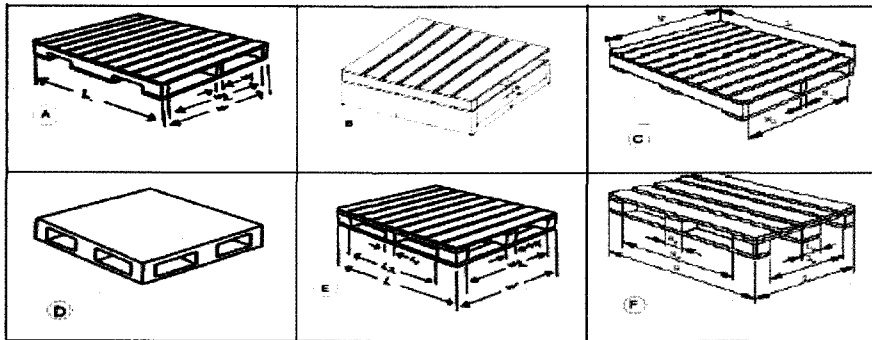
What to do..?

어떤 기술규정과 표준을 개발해야 하는가?

1. Technical Regulation for APSF Pallet Certification System
2. Guidelines for Certifying Pallet Manufacturers
3. Quality Assurance Manual for Timber and Plastic Pallets
3. Standard for Returnable Flat Pallets
4. Standard for Unit Load System in Asia

목재 평파렛트

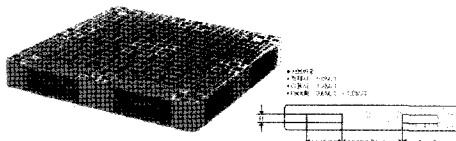
KPCA
Korea Pallet and
Container Association



플라스틱 평 파렛트

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Container Association

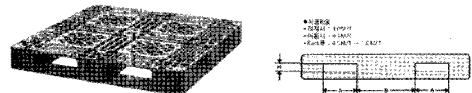
Reversible Pallet for Medium Duty Service
Reversible Pallet For Medium Duty Service (Grilled Type)



※재질규격

종류	길이	폭	높이	중량	적용면적	적용중량	비고
004 04-04	1000	1000	140	200	200	200	※재질 규격 A/B/C
004 100-04	1000	1000	140	200	200	200	※재질 규격 A/B/C
004 100-100	1000	1000	140	200	200	200	※재질 규격 A/B/C

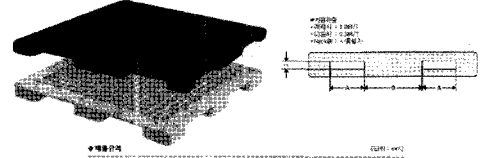
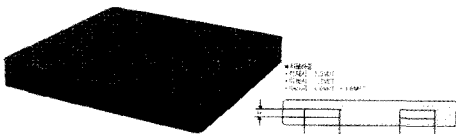
Non-Reversible Pallet for Medium Duty for Pallet Track
Non-Reversible Pallet For Medium Duty Service (Available For Hand Lift)



※재질규격

종류	길이	폭	높이	중량	적용면적	적용중량	비고
002 100-04	1000	1000	140	200	200	200	※재질 규격 A/B/C
002 100-08	1000	1000	140	200	200	200	※재질 규격 A/B/C
002 100-100	1000	1000	140	200	200	200	※재질 규격 A/B/C
002 100-140	1000	1000	140	200	200	200	※재질 규격 A/B/C

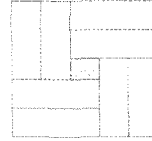
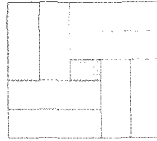
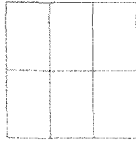
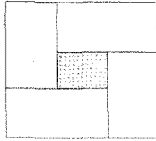
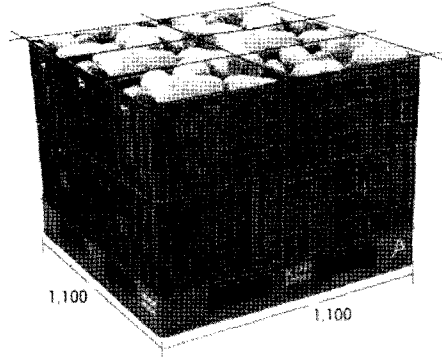
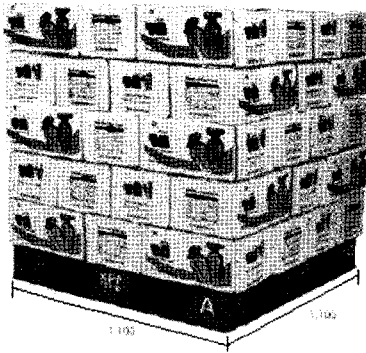
Non-Reversible Pallet for Light Duty
Non-Reversible Pallet For Light Duty Service





파렛트와 상자의 모듈시스템

KPCA
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(600×500mm)

(550×366mm)

(500×300mm)

(440×330mm)

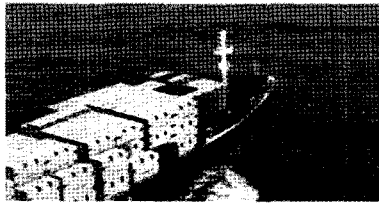
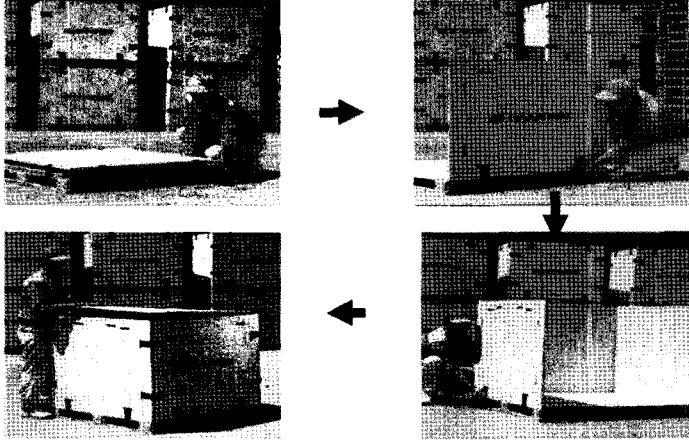
상자형 파렛트

KPCA
Korea Pallet and
Container Association



상자형 파렛트

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Container Association

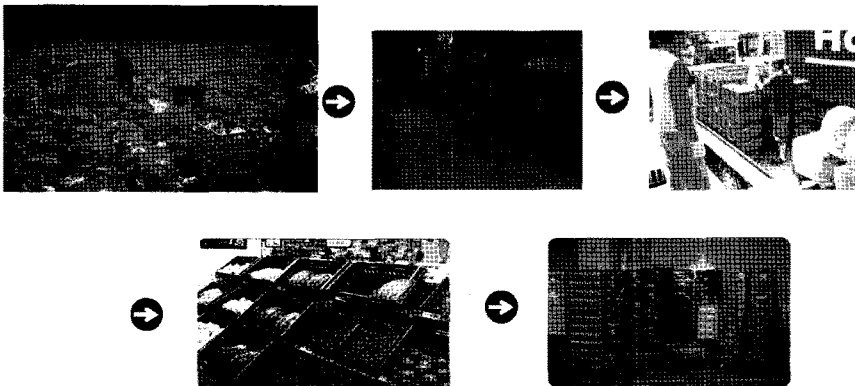


- 환경을 생각하는 제품
- 대량 생산을 통한 표준화...
- 목 재질: 유행한 경기침체...
- 뛰어난 작업성과 안전성

출하 현지에서 판매점까지

KPCA
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Container Association

신선 농산품,...





Who are they..?

누가 이 프로젝트를 시작하는가.?

KPCA, JPA, and CFLP

한중일 먼저 시작하여... KPCA
Korea Pallet and
Container Association

사업계획		일정											
		1st Year		2nd Year				3rd Year					
		3 quarter	4 quarter	1	2	3	4	1	2	3	4		
한중일 공통표준 개발	o Discussing for Priorities o Developing Standards - Returnable Flat Pallets - Returnable Box Pallets												
	o ISO NP Proposal												
인증제도	o Procedure for Accreditation o Inspection Manual o Quality Assurance Manual o Regulation for Marking System												
	RFID Smart System												
Infrastructure	o Survey and Roadmap o Joint Project for Common Standards - Technical Analysis for ISO stand. o Education and Training												

아시아 유닛로드시스템 발전을 위한 마스터플랜(한국)

지역	기술	표준	표준화 현황	표준화 계획	비고	
아시아 유닛로드시스템	파렛트/포장	평 파렛트	국가표준	아시아표준 개정작업	플 파렛트 ISO NP 제안	제정된 아시아 ULS 관련 표준 채택 및 확산을 위한 활동 전개
		상자용 파렛트		ISO NP 제안 및 FDIS	국가표준 개정	
		롤컨테이너 플라스틱 용기		유통업을 위한 유닛로드시스템	ISO NP 제안	
	보관/하역	포크 리프트	국가표준	포크리프트와 파렛트 트럭의 아시아 표준		
		파렛트 트럭	없음	Tailgate Lifter 표준 제정	ISO NP 제안	
	수송	운송컨테이너	국가표준	아시아 표준 채택		
		트럭과 운송컨테이너	국가표준	트럭과 운송컨테이너의 아시아 표준 개발		
정보	RF 태그	국가표준	RF 태그 아시아 표준 채택			
아시아 파렛트 시스템	유닛로드 모듈	운송규칙 코드	국가표준	유닛로드시스템 아시아 표준 개발 및 채택		
		ULS 모듈	국가표준	유닛로드시스템 아시아 표준 개발 및 채택		
	아시아 리터너블 파렛트 시스템	표준	조사 및 우선순위	아시아 리터너블 파렛트 시스템 표준개발		
		규정과 매뉴얼	선진국의 사례조사	운영 및 기술규정과 품질매뉴얼 개발		
		정부간 협력관계	진행 중	관세 면제 및 파렛트 인증제도의 상호인정		
시범 프로젝트	없음	한중일 시범사업		동남아로 확대		
	교육 훈련	없음	온라인 교육	순회 교육 및 훈련		

아시아 각국의 마스터 플랜은... ?

Region	Technology	Standards	2010	2011	2012	2013	2014	2015	2016	2017
Asia Integrated Unit Load System	Domestic Pallet System	Pallet/Packaging	Flat Pallet							
			Box Pallet							
			Roll Container							
			Plastic Container							
			Fork Lift Truck							
	Handling/Storage	Pallet Truck	Tailgate Lifter							
			Rack							
			Truck/Trailer							
			Freight Container							
			Information	RF Tag						
Asia Pallet System	Unit Load Module	Transport Pack								
		General Rules ULS								
Asia Pallet System	Asia Returnable Pallet System	Standards								
		Regulation and Manual								
		Agreements b/w countries								
		Pilot Project								
		Education and training								



한중일 전문가 회의

KPCA
Korea Pallet and
Container Association



Expert Meeting @
Seoul, 2004

Expert Meeting at
Fukuhoka, 2005



전문가 회의 결과 2004~2007

KPCA
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아시아일관수송용 평파렛 (Flat pallets for through transit of Asia)

Flat Pallets for through transit of Asia

Foreword

The objective of the ASPT Standard for "Flat Pallets for through transit of Asia" is to establish the common and local pallet systems and to enhance logistic service and efficiency in Asia and Asian countries by means of carrying out pallet standardization. This Standard also provides the common benefits between participating countries by facilitating interchange of pallets and standard services. Currently, each Asian country has different standards for pallets because Asian countries have been developed with different culture, customs, and logistic environments. Even in the different parts of pallets used in Asia, it is impossible to utilize the pallet pool system as well as pallets for through transit. It is essential to improve the pallet system in Asia region for accomplishing the efficiency and economy of logistic.

Therefore, it is very important to establish the standard for "Flat Pallets for through transit of Asia" which includes the standard pallets for separating, receiving, storing, and returning, including loading, unloading, and returning systems. This standard is for "Flat Pallets for through transit of Asia" has been developed to meet the national standards for a variety of well-through transit systems in both Korea and Japan, as well as to be ISO 6799. It is made to finance the ASPT Standard for "Flat Pallets for through transit of Asia" based on the agreement among 11 member states in Korea, Japan, and China. First of all, the first edition of standard has been developed with respect to the international and performance requirements of the pallets for through transit in Asia. If there are any additional requirements which applied in practice, further changes can be made. Establishing the Asia Pallet System Standard (ASPT) has also been accepted to continuously improve the present pallet system standardization in Asia. Our mission, especially in the domain of integrated logistic and unit load system in Asia region, is that all participating member countries can provide logistic solutions and effectiveness to member's national standards.

1. Scope

This standard specifies the pallets for through transit of Asia. Examples referred to as "pallets" is listed in the annex of pallets in Asia.

3. Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 445 and the following apply:

Maximum working load: greatest payload that a pallet may be permitted to carry in loading

4. Dimensions, Types, Symbols, and Maximum Working Load

4.1 The plan dimensions of pallets

The plan dimensions of pallets conforming this Standard shall be as indicated in Table 1.

Table 1 Plan dimensions, types, and symbols

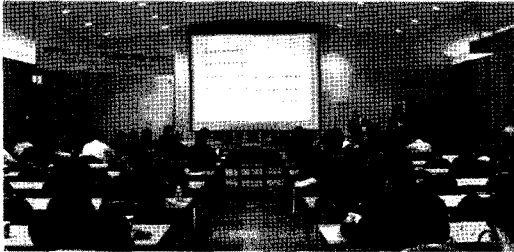
Size (length × width)	Type	Symbol	
1100 × 1100 1000 × 1200 (or 1200 × 1000)	Double decked	Non-reversible two-way pallet	D2
		Non-reversible four-way pallet	D4
		Reversible two-way pallet	R2
		Reversible four-way pallet	R4



전문가 회의 결과 - APSF

KPCA
Korea Railroad and
Container Association

1st General Meeting at Tokyo in 2006



2nd Meeting at Bangkok in 2007

3rd Meeting at Hanoi in 2008

4th Meeting at Kuala Lumpur in 2009

5th Meeting at Jakarta in 2010



APSF 2010년 결의문

KPCA
Korea Railroad and
Container Association

Proposal to Ministers of Logistics in Three Nations: China, Japan, and Korea

The Executive Board of APSF (Asia Pacific System Focusing) hereby proposes to Ministers of Logistics of China, Japan, Korea, and Korea to initiate an action plan for the standardization of logistics regulations in the tri-region. This issue has been discussed and decided in "Okazaki Declaration on Logistics Cooperation in Northeast Asia" at 27th Asia Japan Korea Ministerial Coordination Dialogue on Logistics on May 17, 2009.

1. Official Position of APSF

APSF has officially announced to support on the above issue at the 5th general meeting on July 3, 2008 at Hanoi and 7th APSF Executive Board Meeting on October 22, 2008 at Seoul.

APSF would fully support "Okazaki Declaration on Logistics Ministers Meeting of China, Japan, Korea" on May 17, 2009. APSF which has been recognized as the sole international organization within the region to execute the standardization for Asia Land-Land System, would indirectly participate to implement the standardization of logistics equipment regarding to action plan for 12 implementation issues in Okazaki Declaration.

2. APSF proposes to Ministers of Logistics of Three Nations: Korea, China and Japan as follows:

2.1. The governments of Three Nations: China, Japan, and Korea are hereby requested to establish the standard and corrects regulations for **Standardization of Logistics Equipment** in Northeast Asia, unless, of course, APSF.

2.2. It is proposed that the governments of Three Nations: Korea, China and Japan to continue that APSF would be the important infrastructure to establish the Asia Land-Land System to Asia Integrated Logistics System. All three governments would support APSF financially for operating and activities which will be related to practice and practice concept within plan and implementation.

March 02, 2009

Executive Board

APSF Chairman	Dong-Youn Suh (Korea)	
APSF Secretary General	Jae-Kyun Eom (Korea)	
APSF Vice Chairman	Wu Qingxi (China)	
APSF Vice Chairman	Yoshinori Sakai (Japan)	
APSF Vice Chairman	M. Yusoff (Malaysia)	
APSF Honorary Chairman	Kazuo Okada (Japan)	
APSF Advisor	Jin Wei (China)	
APSF Advisor	Hiroki Fukumoto (Japan)	
APSF Advisor	Ban-Kuk Park (Korea)	
APSF Members	1000+ (444+)	

APSF 2010년 결의문

KPCA
Korea Pallet and
Container Association

2010. 11. 2010

Resolutions from the 5th APSF General Meeting at Jakarta, Indonesia

Date: 2010-06-11
Venue: Gran Melia Hotel, Jakarta
Delegates: China 3, Indonesia 6, Japan 3, Korea 15, Malaysia 1, Philippines 2, Thailand 2, Vietnam 1 (Total of 33)

I. Background

APSF (Asia Pallet System Federation) proposed to the Ministry of Transport and Logistics in China, Japan, and Korea including ASEAN countries to implement an action plan specifically for the "Returnable Pallet System" in this region. This proposal has been included in the action plan of standardization of logistics equipments in "Okayama Declaration for Logistics Cooperation in Northeast Asia" 2008. This issue has also been adopted in the action plan in more detailed to the report of the 3rd Ministerial Meeting of China, Japan, and Korea which was held at Chungdo City in China, May 13-14, 2010.

II. Resolutions

1. We support that APSF would be the organization which will be able to implement and operate the "APSF Marking System for Returnable Pallet and Container Pool System". The Working Group shall be established to discuss in more detailed how to implement the "Returnable Pallet and Container Pool System". The prospective experts of the Working Group shall be as follows:

- Ying Tang, China
- Wulandri Parjiwi, Ms., Indonesia
- Hiroji Fukumoto, Japan
- Jae-Kyun Eom, Korea
- Mond Azlan Mustafa, Malaysia
- Phillip G. Chalmers, Philippines
- Chaichan Charoensuk, Thailand
- Nguyen Ngoc Huong, Vietnam

2. For the purpose of implementing "Returnable Pallet Pool System", we propose that the "APSF Marking System" shall be implemented to manage effectively the "Returnable Pallet and Container Pool System" among three countries including ASEAN countries ensuring that pallets and containers are managed efficiently and maintained with high quality assurance.

2010. 11. 2010

3. We support APSF to be able to undertake this task since APSF has been working and cooperating on this issue in expert meetings among China, Japan, and Korea since 2000.

4. We also support APSF to be able to make cooperative works with ASEAN as specified in the action plan of Ministerial Meeting in Glaste 2010, of which one of possible cooperative projects would be establishing Education Program permanently for ASEAN Unit Load System. For the one step further developing ULS Education program, the representatives from ASEAN countries will request ASEAN secretariat to have training opportunities in Korea annually as well as on-line ULS program via APSF website, which will be opened to applicants from member countries on regular basis. This Internet based program can be developed by Korea to provide more people in ASEAN countries with in-depth knowledge on ULS.

June 21, 2010

APSF Chairman	Byung-Yoon SUH (Korea)	
APSF Honorary Chairman	Kazuo OKADA (Japan)	
APSF Vice Chairman	Wu Qingyi (China)	
APSF Vice Chairman	Yoshiya SAKATA (Japan)	
APSF Vice Chairman	M. YUSOFF (Malaysia)	
APSF Vice Chairman	Patboon Pongkuanak (Thailand)	
APSF Vice Chairman	Philip G. Chalmers (Philippines)	
APSF Vice Chairman	Kyeong-HO LEE (Korea)	
APSF Vice Chairman	Sunshine YAMAZAKI (Japan)	
APSF Vice Chairman	Basjari SANJATA (Indonesia)	
APSF Adviser	JIN Wei (China)	
APSF Adviser	Hiroo FUKUMOTO (Japan)	
APSF Executive Director	Eun-Kyun PARK (Korea)	
APSF Secretary General	Jee-Kyun EOM (Korea)	
APSF Deputy Secretary General	Ying TANG (China)	

The 1st Asia ULS Education at Bangkok in 2007



2nd Asia ULS School at Hanoi in 2008

3rd ULS School at Kuala Lumpur in 2009

The 4th Asia ULS Education at Jakarta in 2010

