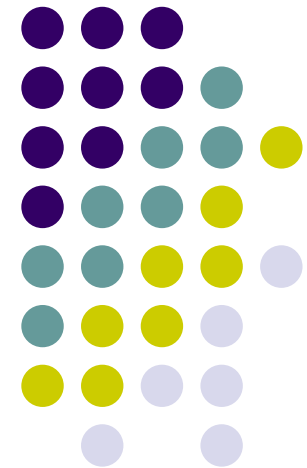


Playback Compatible WG Test P11 Report

Chair : Z. Mitsuji (SONY)

Co-Chair : Y. Shinoki (KENWOOD)



Market Background Trend for Broadcasting Systems



2000

2002

2004

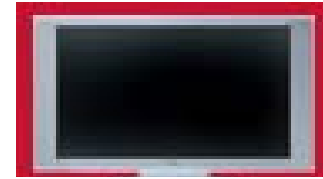
2006

2008

2010



Analog Broadcasting
(Standard Definition)



Digital Broadcasting
(High Definition)



Market Needs

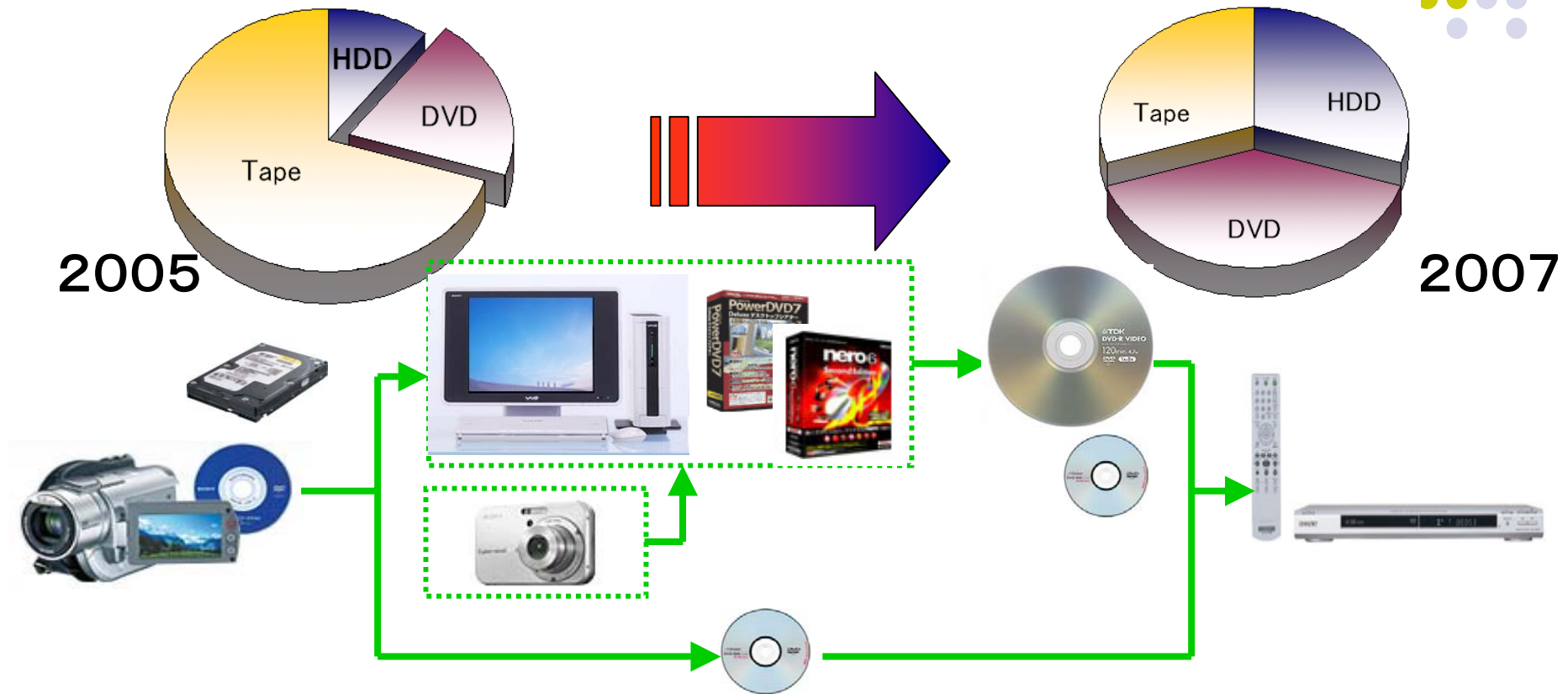
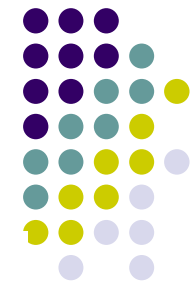


CPRM
DL

A change in broadcasting systems !
TEST Disc=Long Time and Copy Protected Contents



Market Background for Camcorder Media Trend



Purpose of Test P11



Playback compatibility check ,

- DVD-R DL CPRM → 2 samples
- DVD-RW 8cm → 2 samples
(Still and Moving picture)

Used recorded discs for both DVD Players and PC Drives with various Playback applications.

Template



- We tried using the template to shorten the evaluation time for the P11 Test.

TEST Item		
1	Disc recognition	
2	It will playback for 3 minutes or more per each of one title.	
3	(DL only) Before and after the layer jump, it will playback for 3 minutes or more.	<p>Disc</p>
4	(DL only) For the last title of L1 layer, it will playback for the last 3 minutes or more.	<p>Disc</p>
5	It will playback from Play List Title	
6	Chapter search and return. (Depend on contents list)	
7	Fast Forwarding and Rewinding - It depends on the function of each equipment. Ex) When the Max speed is x3, x3 and x2 speed are confirmed.	

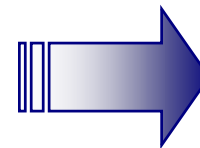
Participants



- DVD Player & Drives Manufacturers
 - Their current or coming soon machines.
- PC Applications Manufacturers
 - Power DVD6, Nero7, and Tester's own applications.
(PC Application choice depends on Testers)

**Players & Drives:
80 Models**

**Discs:
4 kinds**



**Test Pattern:
320**



Stage6 Report



Playback WG

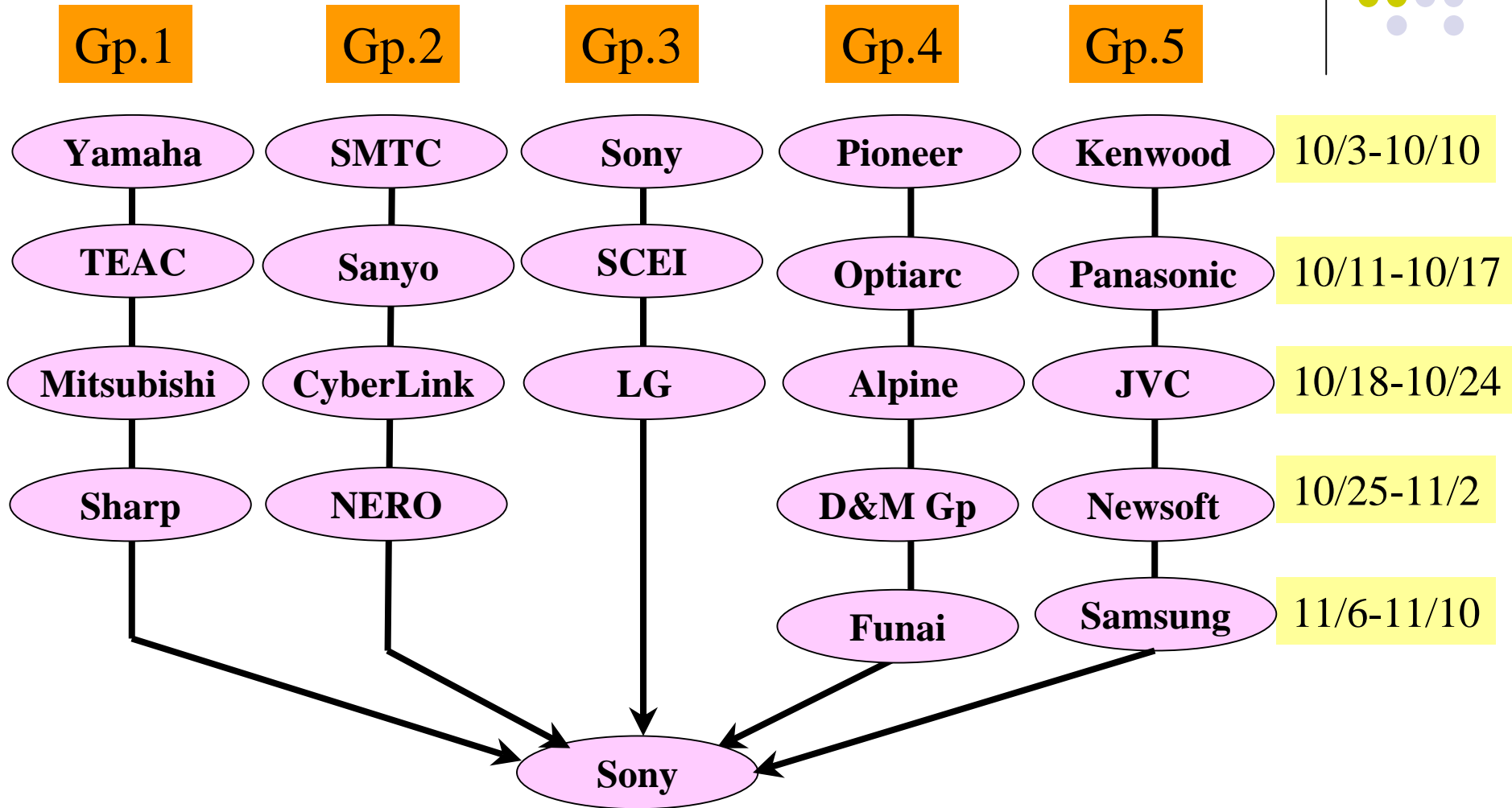
Detail of Participants



Alpine Electronics, Inc.
CyberLink Inc.
D&M Holdings Inc.
Funai Electric Co., Ltd.
Kenwood Corporation
LG Electronics Inc.
Matsushita Electric Industrial Co., Ltd.
Mitsubishi Electric Corporation
Nero AG
Newsoft Technology Corporation
Pioneer Corporation
Samsung Electronics Co., Ltd.
Sanyo Electric Co., Ltd.
Tottori SANYO Electric Co., Ltd
Sharp Corporation
Sony Corporation
Sony Computer Entertainment Inc.
Sony NEC Optiarc Inc.
TEAC Corporation
Victor Company of Japan, Limited
Yamaha Corporation

21 Participants including 2 subsidiaries of
the 19 Companies joined.

Schedule



Summary of Results



- An individual problem

DVD-R DL CPRM

- ① Audio noise
A audio noise at TT1 02:33
- ② Can not playback
A motion freeze at TT1 0:02:17

Solved by each Tester

→ 87.5% → 97%

DVD-RW 8cm

- ① Video and Audio noise
Low resolution of video contents

→ 88.2% → 95%

- Result of activity

No problem (≒ 57%)

Countermeasure by Application and each Tester

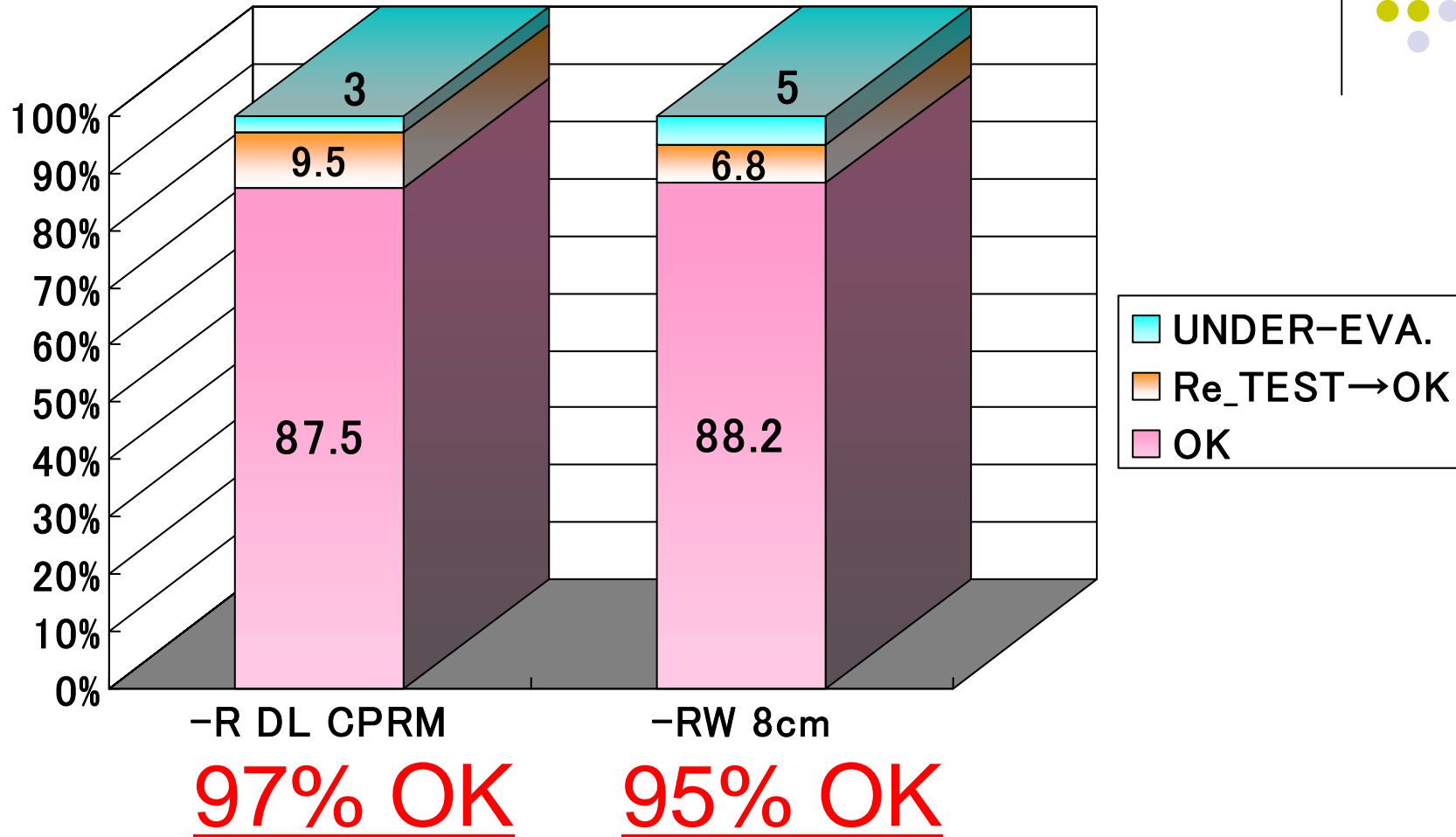
→ OK (≒ 40%)



Comment



Summary of Results



Conclusion of Test P11



- We could confirm the high compatibility of DVD-R DL CPRM and DVD-RW 8cm with Mixture of contents.
- Most of the commented items were cleared by collaboration with the disc creator.
- We could improve evaluation period by using the template.

Future Plan



- 1: 8x or 16x DVD-R
- 2: 12 x DVD-R DL
- 3: DVD-RW DL
- 4: ▪
- 5: ▪

There are some plans, but it is not yet decided.
We will consider them for the near future.



END