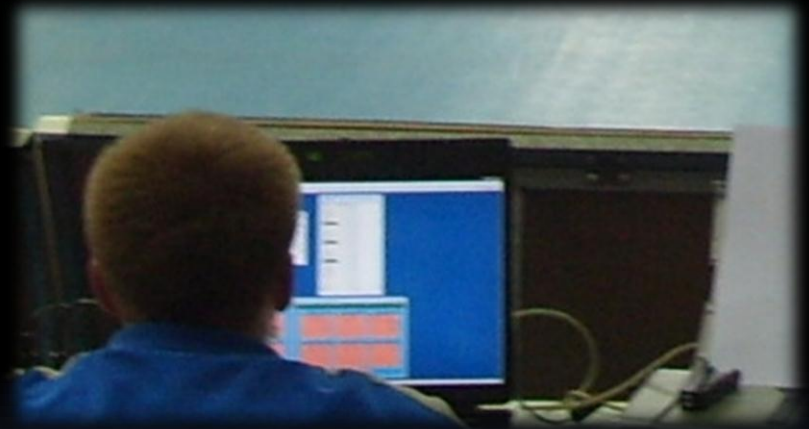Kwok Ng

STATISTICS IN VOLLEYBALL

Session Outcomes

- During this session, you will encounter the use of statistics in indoor volleyball and understand

  - Systems used for statistics
  - How to collect statistics
  - Who uses the information

What are statistics for?

- Players skill levels
  - Players consistencies
  - Mastery Goals
- Coach decision making
  - Planning of training
  - Substitutions
- Tactical applications
  - Tendencies
  - Match ups
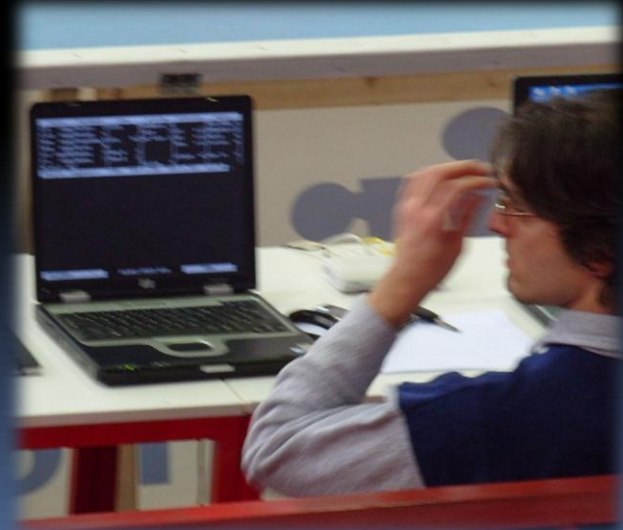- Media
  - Information about athlete
  - Tips

How are statistics used in Volleyball?

- Observational
- Real time
- Video Analysed
- Pen and Paper
- Computerised
- Database driven

Some applications

- [Volleyball Information System (VIS)](#)
- [Mercury](#)
- [Data Volley](#)
- Volleyball Game Statistics
- Excel
- Pen and Paper

Match	25546	Spectators		Set	Time	Partial score				Score
Date	01/11/2009	Income		1	0.25	8-5	15-16	21-20		26-24
Time	17.00.00	Hall		2	0.26	8-5	16-15	21-20		23-25
City				3	0.30	8-7	16-12	21-18		27-29
				4	0.24	8-6	16-11	21-17		25-21
				5	0.16	4-5	8-10	10-12		13-15
Referees					2.01					114-114

TAMPEREEN I.

#		Set 1 2 3 4 5	Vote	Tot	BP	W-L	Tot	Err	Pts	Tot	Err	Pos%	(Exc%)	Tot	Err	Blo	Pts	Pts%	BK Pts
1	VESANEN A.	5 5 6 5 6	6.4	11	2	+7	23	1	·	1	1	·	·	17	1	1	10	59%	1
2	LEHTOLA K.	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
3	TAMAS C.	1 6 1 6 1	6.2	5	4	-2	12	5	1	·	·	·	·	2	·	·	2	100%	2
4	VESANEN O.	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
5	OWENS R.	4 3 4 3 4	5.5	14	2	-1	16	5	1	·	·	·	·	32	8	2	11	34%	2
6	HEINO O.	▭ ▭	·	·	·	-1	3	·	·	·	·	·	·	·	·	·	·	·	·
7 L	KANGASNIEMI T.	▭ ▭ ▭ ▭ ▭	·	·	·	·	·	·	·	25	-	68%	(32%)	·	·	·	·	·	·
8	SINKKONEN S.	▭ ▭	·	·	·	·	2	·	·	·	·	·	·	·	·	·	·	·	·
9	TIHINEN T.	5 4 5 4 5	6.1	15	7	+3	18	3	2	35	2	71%	(49%)	22	4	2	10	45%	3
10	MIKKONEN J.	2 1 2 1 2	5.7	22	9	+6	22	4	3	26	2	69%	(38%)	35	7	3	17	49%	2
11	Hakala L.	▭ ▭	·	·	·	·	·	·	·	7	·	71%	(57%)	·	·	·	·	·	·
13	SILPO S.	3 2 3 2 3	6.7	13	3	+11	16	1	1	·	·	·	·	15	1	·	9	60%	3
14	MUTKA T.	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
Team totals				**80**	**27**	**+23**	**112**	**19**	**8**	**94**	**5**	**69%**	**(41%)**	**123**	**21**	**8**	**59**	**48%**	**13**

	Points won:	Ser	Att	Blo	Op.Er	Tot	Err	Pts	Tot	Err	Pos%	(Exc%)	Tot	Err	Blo	Pts	Pts%	
	Set 1	3	12	3	8	25	3	3	20	1	60%	(25%)	28	7	3	12	43%	3
	Set 2	1	11	4	7	24	3	1	20	2	55%	(30%)	21	2	1	11	52%	4
Head coach RAUTIO Pasi	Set 3	2	9	2	14	25	3	2	21	1	86%	(38%)	29	5	3	9	31%	2
	Set 4	1	16	4	4	25	7	1	18	1	78%	(61%)	24	3	·	16	67%	4
Assistant PANU Marko	Set 5	1	11	·	1	13	3	1	15	-	67%	(60%)	21	4	1	11	52%	·

MUURAMEN L.

#		Set 1 2 3 4 5	Vote	Tot	BP	W-L	Tot	Err	Pts	Tot	Err	Pos%	(Exc%)	Tot	Err	Blo	Pts	Pts%	BK Pts
1	RONKAINEN T.	1 1 1 1 1	6.3	2	2	-4	17	3	1	2	·	·	·	3	2	·	·	·	1
2	ANTILA J.	3 3 3 3 6	5.8	8	3	-1	20	5	2	1	-	100%	(100%)	9	2	1	5	56%	1
3	KORHONEN J.	▭ ▭ ▭	·	·	·	-2	4	1	·	1	·	·	·	1	·	1	·	·	·
4	BRCIC D.	5 5 5 5 5	5.9	21	4	+7	18	2	·	39	3	69%	(36%)	31	3	6	20	65%	1
5 L	HYVÄRINEN P.	▭ ▭ ▭ ▭ ▭	·	·	·	-2	·	·	·	30	2	67%	(23%)	·	·	·	·	·	·
6	KAURA-AHO P.	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
8	KOSKELA N.	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
9	ANINKO J.	2 2 2 ▭ ▭	5.5	2	1	-3	10	1	·	13	2	62%	·	7	1	1	2	29%	·
11	PELTONEN J.	▭	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
12	NIEMINEN T.	▭ ▭ 2 2	7.1	7	2	+6	9	·	·	7	1	57%	(14%)	8	·	·	6	75%	1
13	SIPOLA V.	6 6 6 6 3	6.8	7	3	+5	16	1	·	·	·	·	·	8	·	·	5	62%	2
16	DZOMBIC D.	4 4 4 4 4	5.7	21	7	+5	19	5	2	·	·	·	·	36	6	4	17	47%	2
Team totals				**68**	**22**	**+11**	**113**	**18**	**5**	**93**	**8**	**65%**	**(25%)**	**103**	**14**	**13**	**55**	**53%**	**8**

	Points won:	Ser	Att	Blo	Op.Er	Tot	Err	Pts	Tot	Err	Pos%	(Exc%)	Tot	Err	Blo	Pts	Pts%	
	Set 1	1	9	3	11	25	5	1	22	3	50%	(14%)	19	4	3	9	47%	3
	Set 2	2	17	1	5	24	4	2	21	1	76%	(29%)	30	3	4	17	57%	1
Head coach Viktor Circhenko	Set 3	1	13	3	12	28	6	1	22	2	73%	(27%)	25	5	2	13	52%	3
	Set 4	1	10	·	10	21	3	1	18	1	72%	(33%)	19	1	4	10	53%	·
Assistant Tatu Rauhansalo	Set 5	·	6	1	8	15	·	·	10	1	40%	(20%)	10	1	·	6	60%	1

TAMPEREEN ISKU-VOLLEY

Points Rot Diff	Receptions 94 Points SO 53
6 +4	Each 1.77 Recept.
5 -3	1 Point
4 -4	
3 -6	
2 +12	Serve 112
1 -3	Point BP 27
	Each 4.15 Serve
	1 Break Point

KILL ON RECEPTION

1st ATTACK AFTER POSITIVE RECEPTION (+#)

Errors	Blo	Pts%	Tot	Tot	Pts%	Blo	Errors
8	5	51%	65	58	57%	6	5

1st ATTACK AFTER NEGATIVE RECEPTION (-)

Errors	Blo	Pts%	Tot	Tot	Pts%	Blo	Errors
2	0	50%	8	8	12%	2	3

ATTACK ON DIG

Errors	Blo	Pts%	Tot	Tot	Pts%	Blo	Errors
11	1	41%	39	30	60%	4	5

MUURAMEN LENTOPALLO

Receptions 93 Points SO 46	Points Rot Diff
Each 2.02 Recept.	6 -2
1 Point	5 +5
	4 +4
	3 -5
Serve 113	2 -2
Point BP 22	1 +2
Each 5.14 Serve	
1 Break Point	

BP Break point	Pts Points
Err Error	Blo Blocked
Pos% Positive +#	Exc Excellent
W-L Won - Lost	
[n] Starting line-up position	
▭ Substitute	

Software:
Data Project S.r.l.
www.dataproject.com

Pen and Paper

- Reception
  - 3 – Excellent; 3 options available
  - 2 – Good; 2 options available
  - 1 – Bad; 1 option available
  - 0 – Led to direct loss of point
- Attack, Serve & Block
  - 1 – Score Point
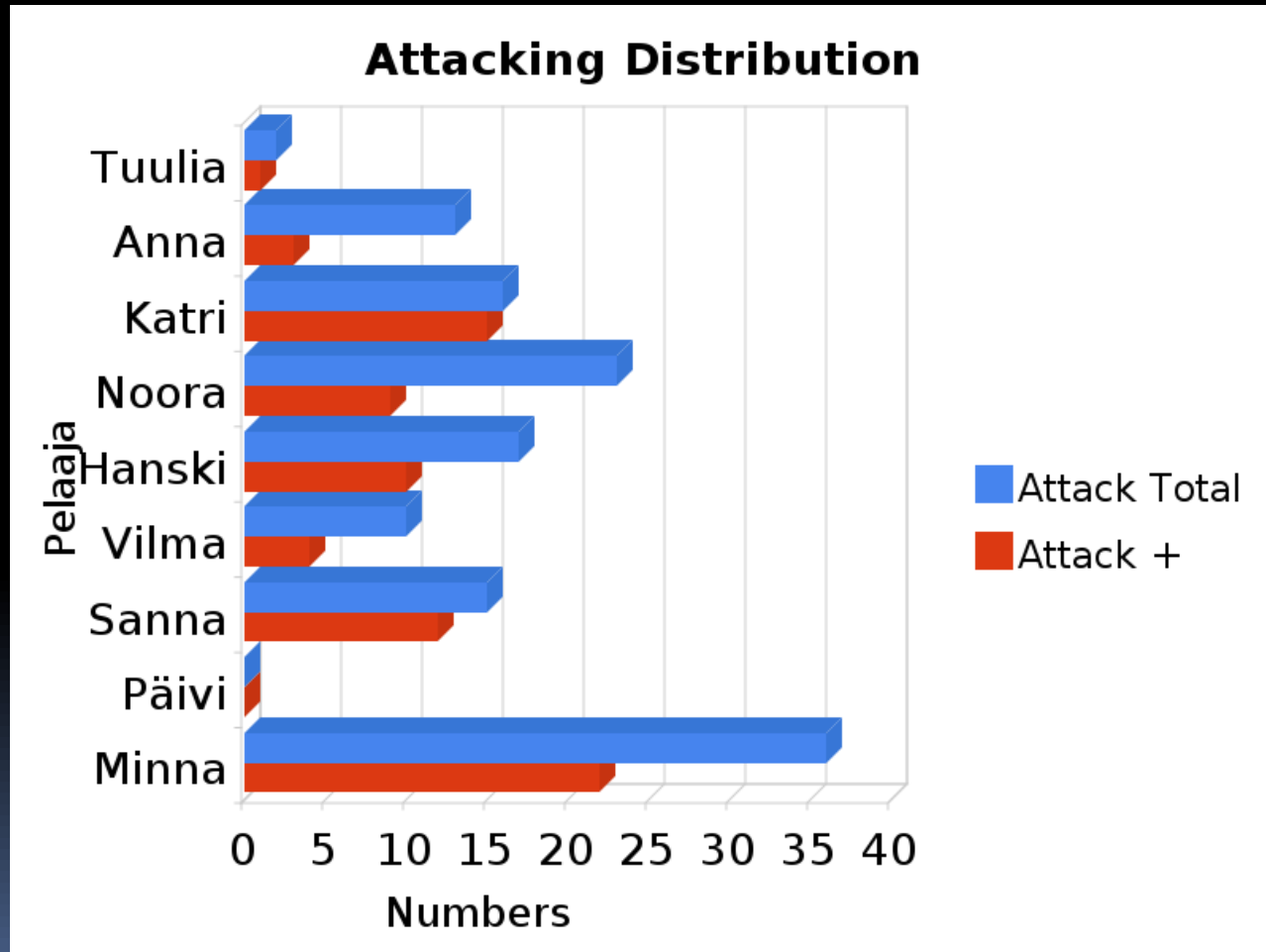 - 0 – Continue, attempt
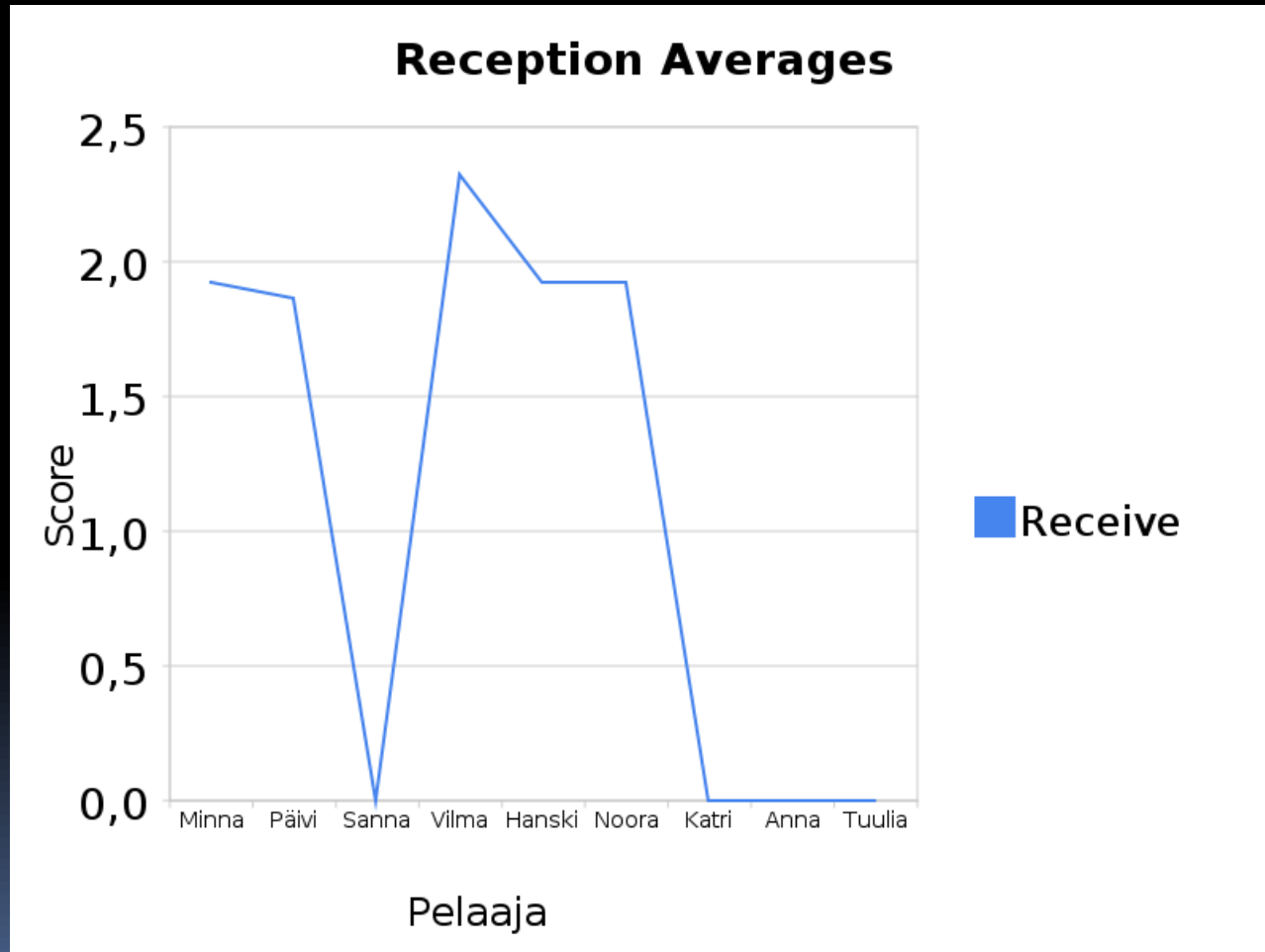 - X – Lost Point

Match Data - Excel

Tilasto: YlöR- Muurle 0-3 (11-25, 9-25, 17-25)

	Vastaanotto						Hyökkäys						Syöttö					Torjunta		
	1	2	3	miinus	ka		1	0	miinus	(hyökkä	%		1	0	miinus	/- (syöttö)	1	0	miinus
Minna	1	7	3	2	1.8		13	10	0	13/+13	56.5217		5	13	2	5/+3			
Päivi	2	4	1	0	1.9		0	3	0	0/0	0		0	0	0	0/0			
Sanna	0	0	0	0	0.0		5	5	0	5/+5	50		3	15	0	3/+3			1
Vilma	0	1	3	0	2.8		2	1	0	2/+2	66.6667		0	1	0	0/0			
Hanski	0	1	2	1	2.0		7	14	0	7/+7	33.3333		2	8	0	2/+2	1		
Noora	0	0	5	1	2.5		6	9	3	6/+3	33.3333		1	7	1	1/0			2
Katri	0	0	0	0	0.0		2	4	0	2/+2	33.3333		1	7	0	1/+1		5	1
Anna	0	0	0	0	0.0		1	2	2	1/-1	20		0	0	1	0/-1		1	
Tuulia	0	0	0	0	0.0		2	1	1	2/+1	50		0	3	1	0/-1	2		2

After 4 Games

After 4 Games

Task

- Finland (Receive, Attack, Serve, Block)
- Brazil (Receive, Attack, Serve, Block)

#	Finland	POS - #	#	Brazil	POS - #
3	ESKO	S – 3	1	BRUNO	S – 6
4	OJANSIVU	M – SUB	3	EDER	M2 – 5
5	SITALA	O2 – 1	6	VISSOTTO	U – 3
12	KUNNARI	O1 – 4	7	GIBA	O2 – 1
13	OIVANEN, MI	U – 6	8	MURILO	O1 – 4
14	SHUMOV	M1 – 2	10	SERGIO	L
15	OIVANEN, MA	M2 – 5	14	RODRIGO	M1 –2
19	HYVÄRINEN	L			

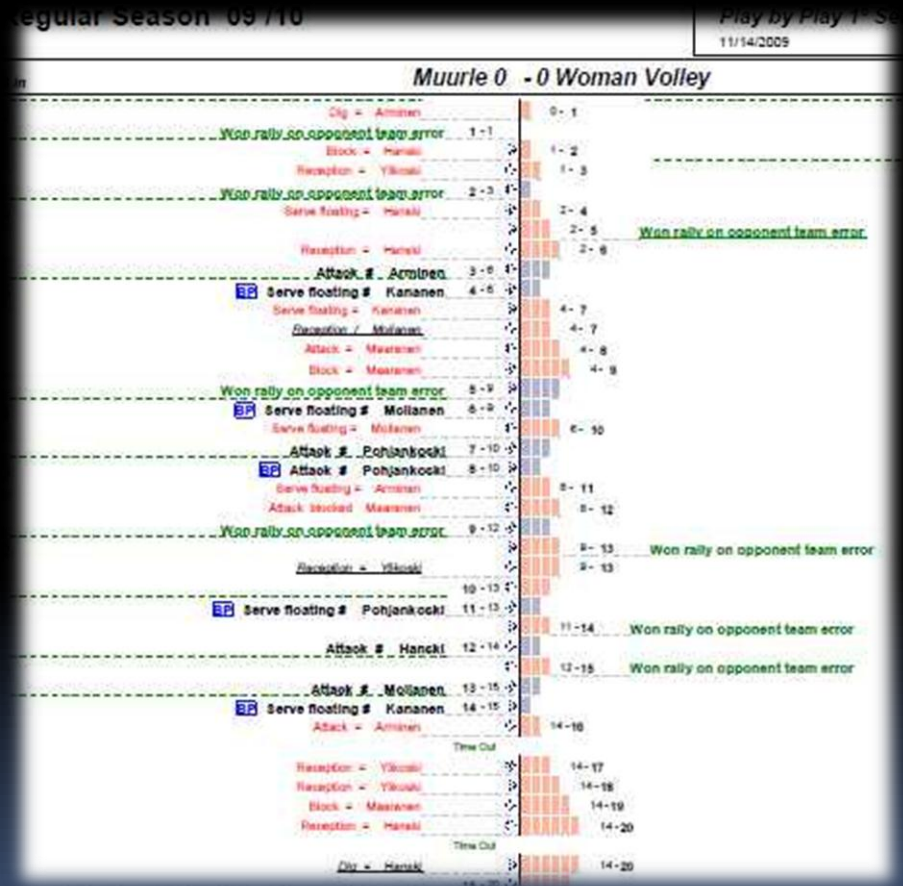|	Receive				Attack			Serve			Block		
	3	2	1	0	1	0	X	1	0	X	1	0	X
3					1								
4									2				
5						1		1					
12							1						
13					1	2							
14												1	
15													
19	1	1											
1					1								
3					1								1
6					2						1		
7	1			1		1							
8													
10	1												
14					1				2				

Coach in Action

- Preparation & Planning
  - Practices & Training
  - Skills & Combinations
  - Starting Line Ups
- Substitutions
- System Modifications
- Time Outs

Passari @ 2

Tactics

- Point by Point
- Flow Charting
- Systems
  - Attack
  - Block
  - Cover
  - Defence
  - Serve Receive
- Tendencies

Conclusions

- In this session we have looked at some of the reasons for the use of statistics in volleyball, looked at some of the applications of statistics through collection and exercises, and how statistics can be utilised to benefit teams.

Thank you for your time