Education Committee

Simulators and New Technology Day

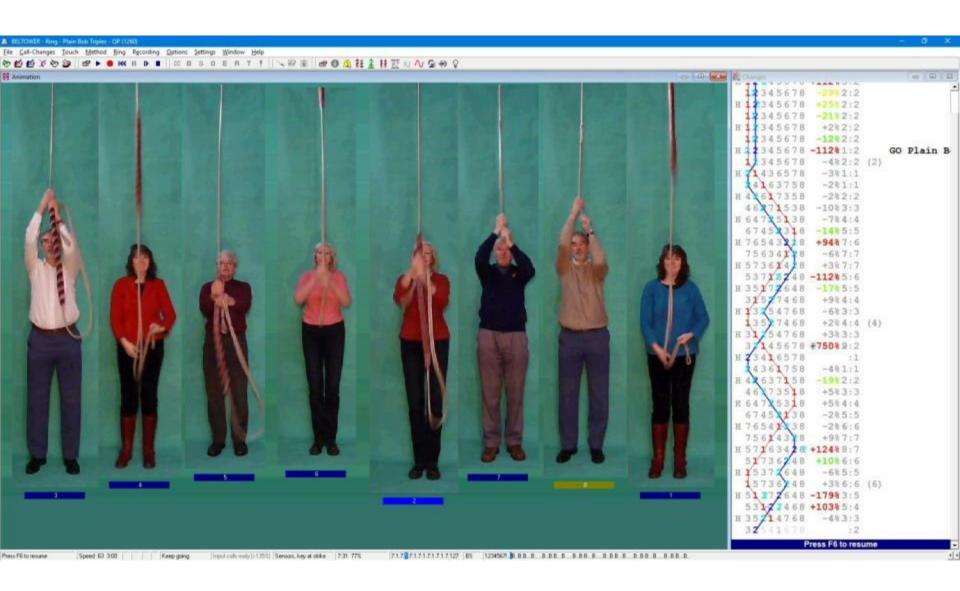
Software Presentation

- Background

- Many simulators lie gathering dust in the corner of belfries:
 - Ringing by ear alone can be quite difficult. People try and then give up
 - Few people have been trained to set the systems up and use them
 - Early technology was not 100% reliable
 - Someone keenly installs one, then moves on, and no-one else is knowledgeable enough to continue its use.

- Background

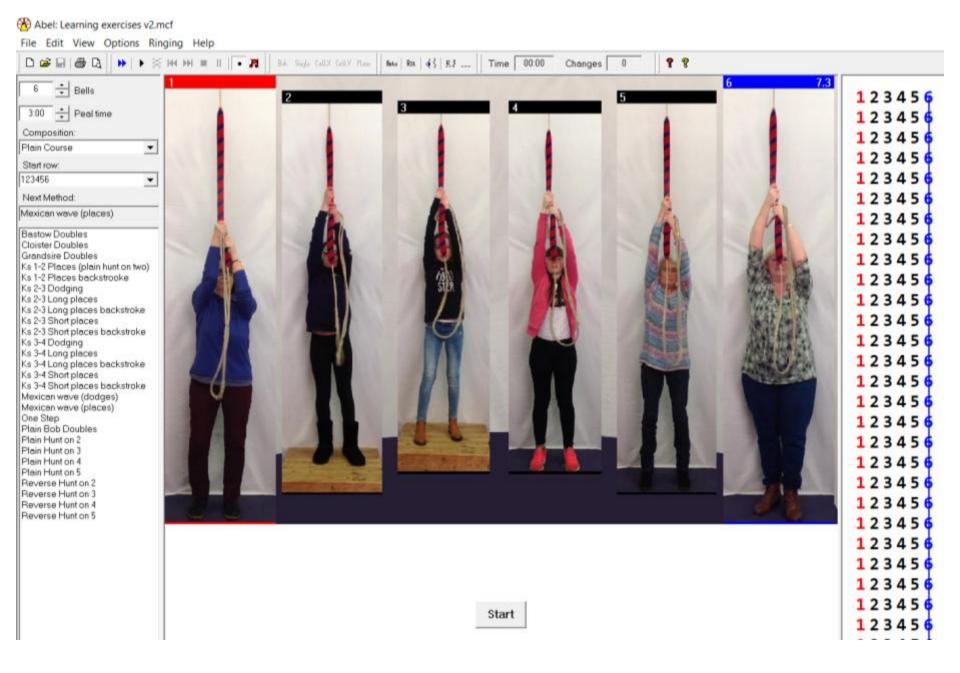
- There have been many advances in simulator technology in recent years
 - More reliable sensor systems
 - Addition of LtR learning exercises to help with early stages
 - Introduction of video (moving ropes) to help with teaching ropesight
 - Facility to measure striking accuracy of individuals, and whole band
 - Off the shelf dumb-bells to practice in the tower and at home



Beltower screenshot



Virtual Belfry screenshot





Teaching Rounds and Listening Skills

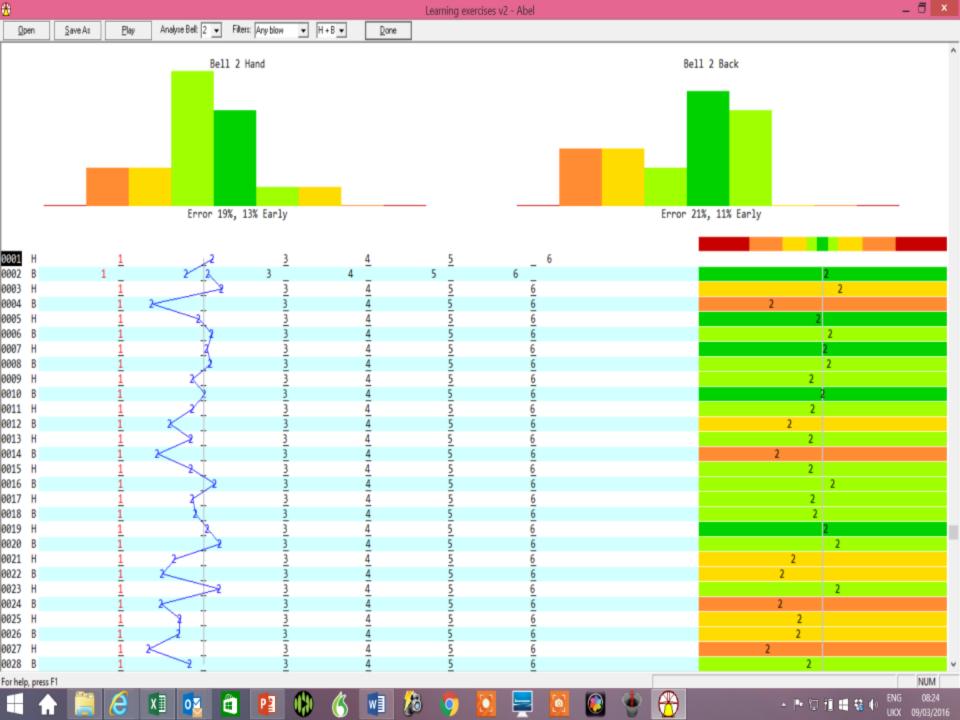


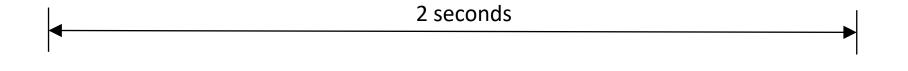
- I can't hear my bell?

- Some people have extreme difficulty picking out their bell, but very few people are totally tone deaf:
 - Try ringing fewer bells. Don't be afraid to start with three bells
 - Then increase one at a time as you become more comfortable
 - Slow the simulator down (6 hour peal speed!)
 - Count your place (one, <u>two</u>, three, four, five, six etc.) emphasising the bell that
 you are ringing. Clap this with your hands first
 - Practice at home Press a key on the keyboard, or use a smartphone app

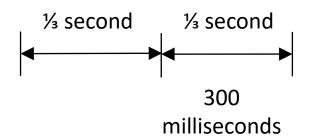


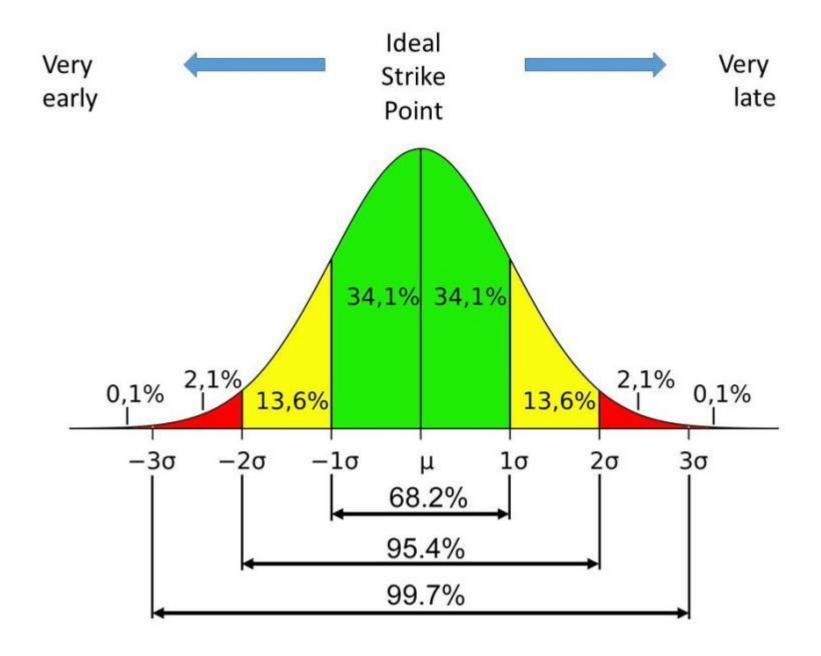




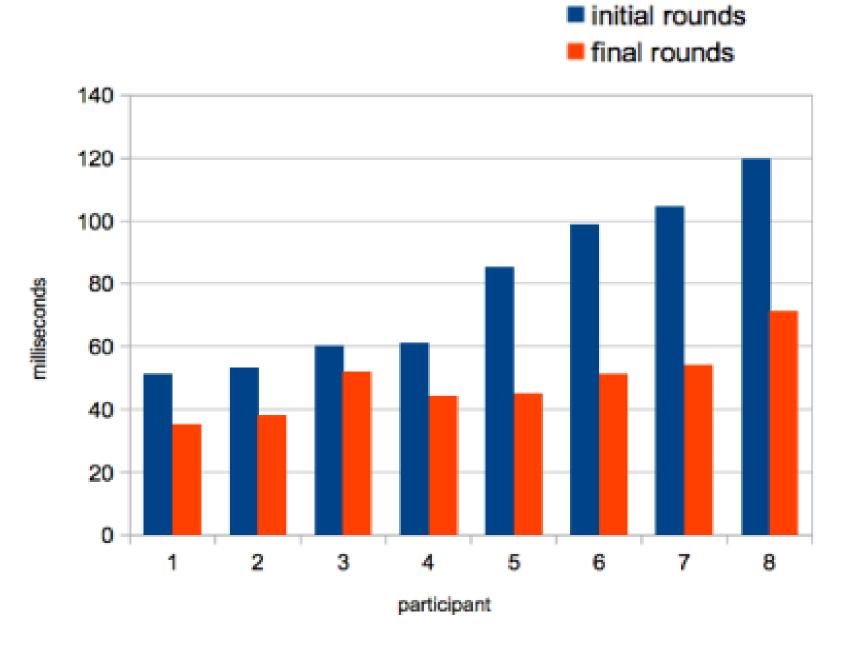


1 2 3 4 5 6 1

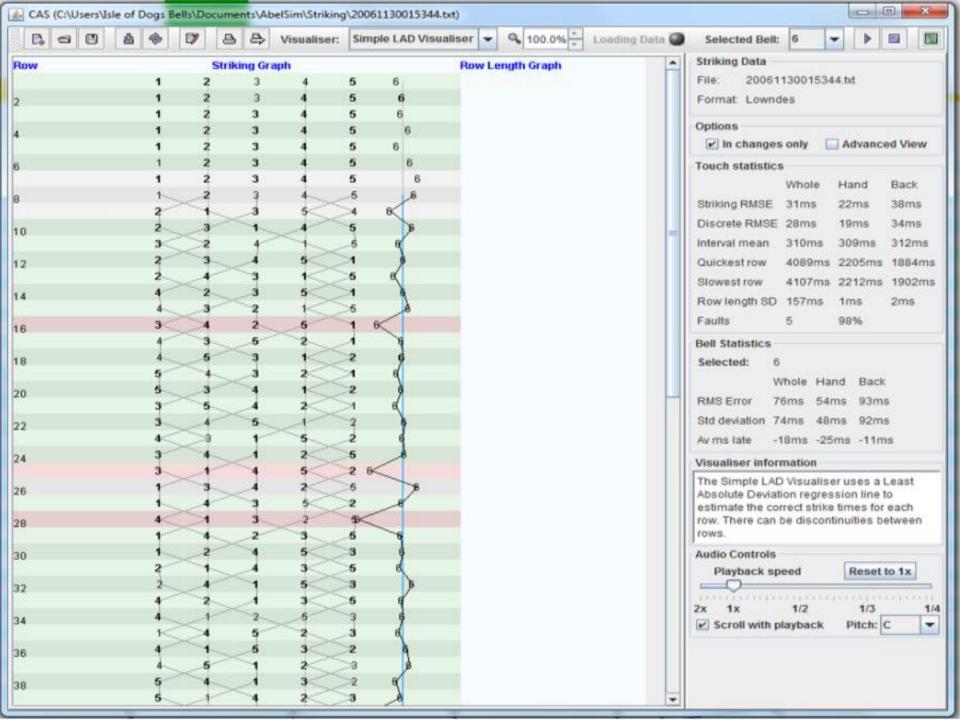




Variability – Normal distribution and standard deviation (σ)



Improvement in average error over 12 months at Orange, New South Wales



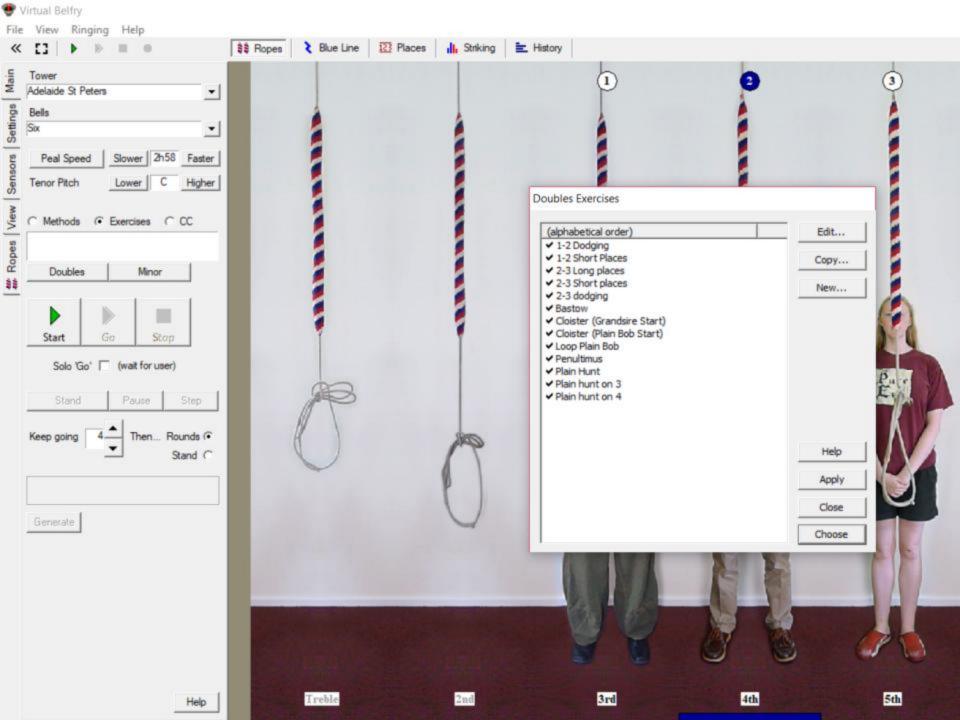
North & East District Striking Competition Results 2015

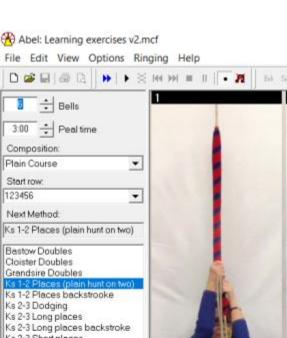
Jersey cup	Novices cup	Team	Tower	Faults	%
1 st	-	4	Aldgate A	75	92
2 nd	-	7	St Vedast, Foster Lane A	82	91
3 rd	-	5b	Stepney	84	91
4 th	-	6	Islington (Prebend St.)	155	84
5 th	-	8	St Vedast, Foster Lane B	178	81
6 th	1 st	3	Hackney	302	67
7 th	2 nd	1	Isle of Dogs	371	61
8 th	3 rd	2	Aldgate B	438	55



Call changes & Kaleidoscope







Ks 2-3 Short places

Ks 2-3 Short places backstroke

Ks 3-4 Dodging

Ks 3-4 Long places Ks 3-4 Long places backstroke

Ks 3-4 Short places

Ks 3-4 Short places backstroke

Mexican wave (dodges)

Mexican wave (places)

One Step Plain Bob Doubles

Plain Hunt on 2

Plain Hunt on 3

Plain Hunt on 4

Plain Hunt on 5

Reverse Hunt on 2

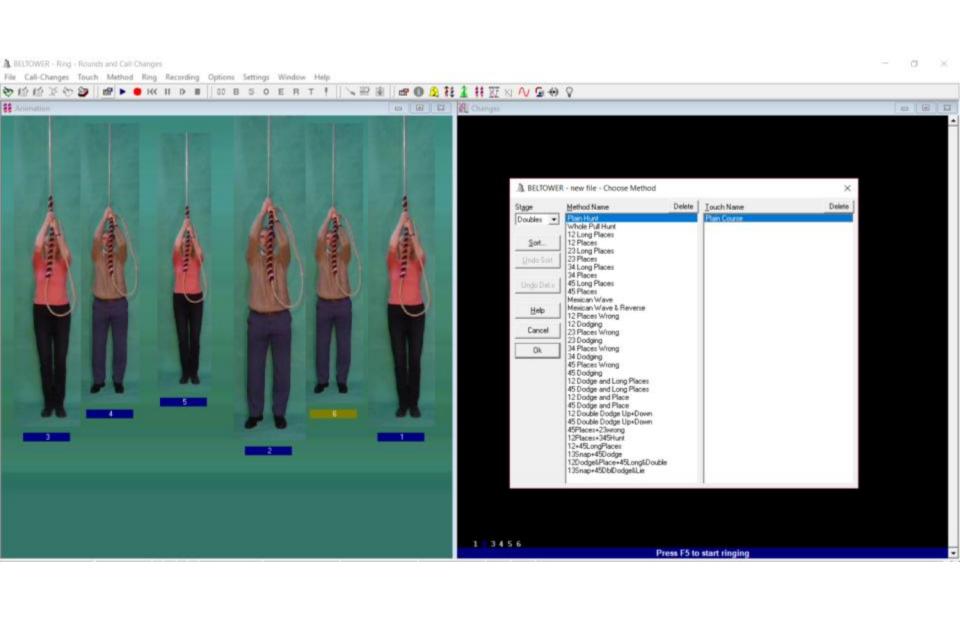
Reverse Hunt on 3

Reverse Hunt on 4

Reverse Hunt on 5



Start





Call changes – Ringing Options

	<u>123456</u>		<u>123456</u>
Н	132456	Н	137456
В	132456	В	132456
Н	132456	Н	1 🛭 3 4 5 6
В	132456	В	<u>123456</u>
Н	1 2 3 4 5 6		
В	1 2 3 4 5 6		
Н	123456		
В	<u>123456</u>		

Long places

Short places

Kaleidoscope places – changing at handstroke

	<u>1 2 3 4 5 6</u>		<u>123/456</u>
Н	132456	Н	124356
В	1 🕱 3 4 5 6	В	123 456
Н	132456	Н	124356
В	1 2 3 4 5 6	В	123 156
Н	132456	Н	124356
В	1 2 3456	В	123456
	etc.		etc.

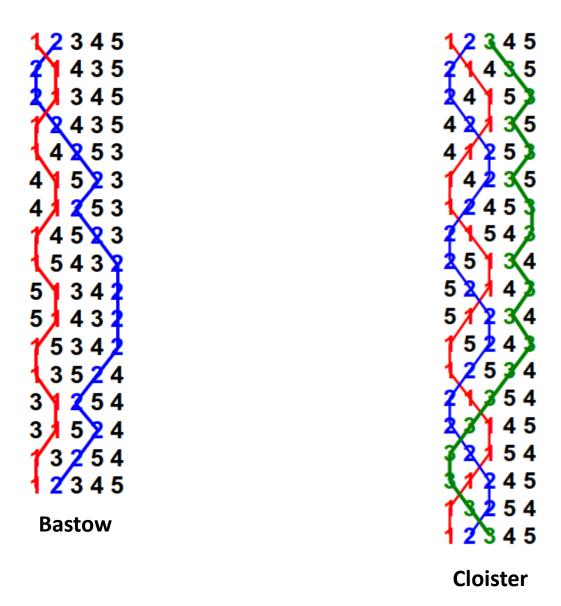
Dodging 2-3

Dodging 3-4

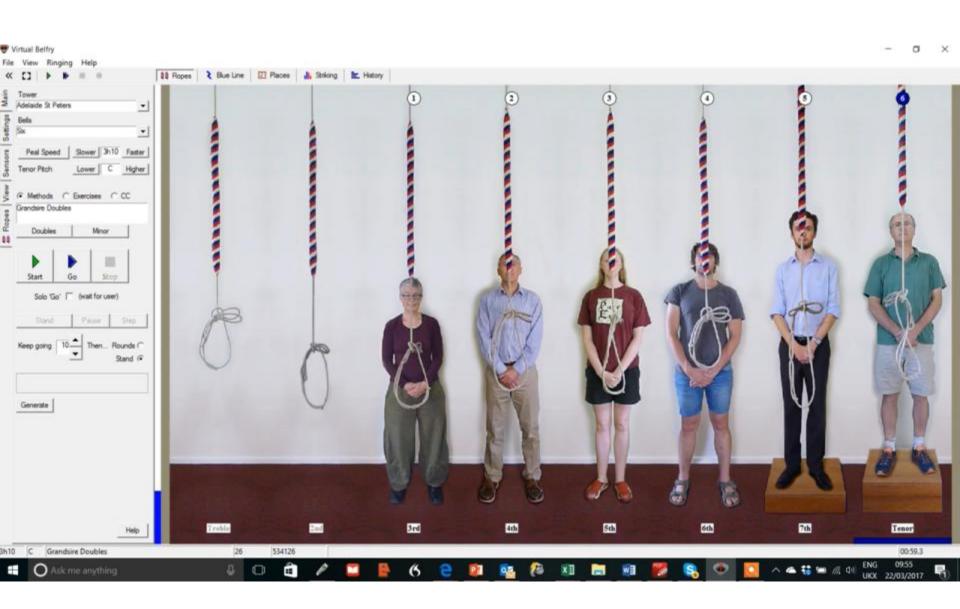


Steps to Plain Hunting





Bastow and Cloister, plain hunting on two and three, starting to introduce ropesight



Ropesight Flashes in Virtual Belfry (for tenor covering)

Making better use of teachers

- One teacher can teach two new ringers at a time, rather than needing six experienced helpers
 - Easier to arrange sessions
 - Can hold more frequent sessions
 - More rope time in each session
 - Pupils not embarrassed by mistakes
 - With more that one 'workstation' ringers can practice different things
 - Can even get simulator to 'fill in' for missing ringers
 - BUT, need a mix of practice with real ringers and simulator

And Finally!

ART Simulator Awareness Workshop

Teaching with Simulators Book

Ringing Simulator Users and Suppliers Facebook Group

You-tube videos and other material on ART website

Webinars

Can you help?