

Reinout Havinga,  
Curator, Hortus Botanicus Amsterdam

## Barcodes in IrisBG

From muddy paper trails to fully  
fledged mobility



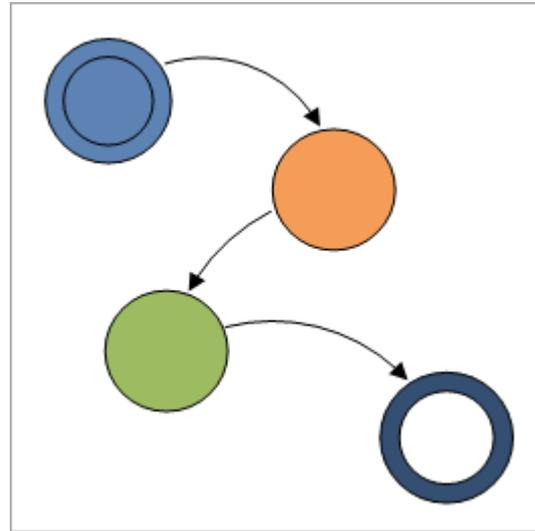
de hortus

Hortus Botanicus Amsterdam - anno 1638

# Why can they get it to work?



# Technology – Workflow - People



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# Encoded information

*Text*

<http://dehortus.gardenexplorer.org/>

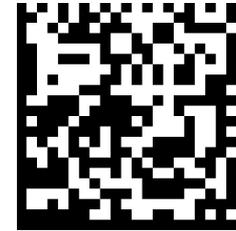
20050012



*Quick response (QR)*



*Data matrix*



# Labels

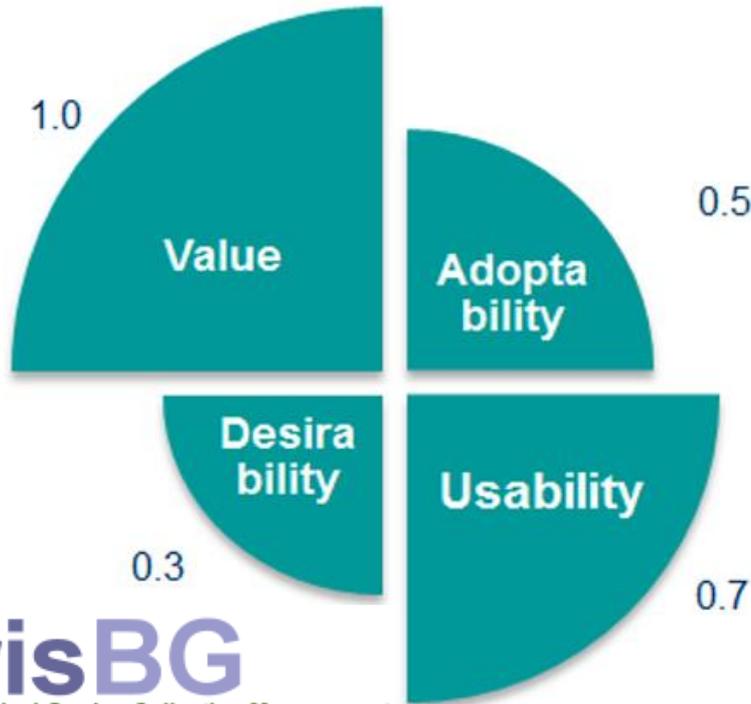


# Motorola MC550



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# Software integration



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*We just want stuff that works!*

# Synchroniser



IrisBG Mobile Synchronizer

File Help

Hortus Botanicus Amsterdam

Synchronize Text Phrases Maps Installation/Reset

**Synchronize with IrisBG mobile device**

Ensure that device is connected to the PC and click "Start"



Upload changes to inbox ONLY

Synchronize

Reset database on handheld

Removing any deleted accessions records...  
Removing any deleted accession item records...  
Removing any deleted images records...  
Removing any deleted task records...  
Removing any deleted task entries records...  
Removing any deleted inspections records...  
Prepare to load device database  
FromWin32ToPda  
Loading device database...  
Finished loading device database file!  
Synchronization completed successfully!  
8 changes where uploaded to Inbox,  
Duration [4:56]

Cancel

# Workflows

- Scan, View and update accession, Scan
- Scan, Update plant status, Scan
- Scan, Add to a list, Scan

# Stocktaking



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# Inbox

- ← → ☰
- Collections ⌄
  - Accessions
  - Item management
  - Localities
  - Projects
  - Inbox
- Taxonomy ⌄
  - Taxa
  - Taxonomic groups
- Reports ⌄
  - Reports
  - Maps
  - Labels
- Events ⌄
- Management ⌄
- Store ⌄
- Definitions ⌄
- Maintenance ⌄

## Inbox

Handle data transferred from external devices

No: °	Job status: °	Source type: °	Source name: ~	Reg. person: °
245	Ready	PDA	IrisBG Mobile [Poi	Havinga, R.M. (Reinout)

Inbox item compared with current data - changes are marked with yellow

No	Name	Status	Owner
▶ -7	Demonstration for user conference	● Open	reinouth

Inbox items - select to view details

Type	Identity-1	Identity-2	Identity-3
▶ Task	Task -7: Demonstration fo...	reinouth	
Task Entry	20160013	Pelargonium citronellum	
Task Entry	20160016	Pelargonium quercifolium	
Task Entry	20160017	Pelargonium tomentosum	
Task Entry	20160018	Pelargonium 'Cola Bottles'	
Task Entry	20160015	Pelargonium denticulatum	
Task Entry	20160014	Pelargonium album	
Task Entry	20050012	Salvinia molesta	

# Task

**Tasks**  
Manage tasks

Task

Save  
Delete...

No°	Status°	date~	481	● Open	13/04/2016	Date start~	end~		
Name~		Demonstration for user confere...				Contact°			...
Type°						Exp. cost	Act. cost		
Description						Comments			
Priority°	Owner°	0...	Havinga, R.M. (...)	Reg. init.	date	reinouth	13/04/2016		

Entries kind° Accession

Code/Name°	Info-1	Info-2	Comments	Image	Status	Sort
* Click here to add a new row						
▶ 20160013	...	Pelargonium citronellum			● Open	
20160016		Pelargonium quercifolium			● Open	
20160017		Pelargonium tomentosum			● Open	
20160018		Pelargonium 'Cola Bott...			● Open	
20160015		Pelargonium denticulat...			● Open	
20160014		Pelargonium album			● Open	
20050012		Salvinia molesta			● Open	

# Taxa

## Taxa and nomenclature

Manage taxa and nomenclature

Search result - group by None

Taxon name	...	Synonym of	Family	Pr	Ch
▶ Pelargonium album	●		Geraniaceae		
Pelargonium citronellum	●		Geraniaceae		
Pelargonium 'Cola Bottles'	●		Geraniaceae		
Pelargonium denticulatum	●		Geraniaceae		
Pelargonium quercifolium	●		Geraniaceae		
Pelargonium tomentosum	●		Geraniaceae		
Salvinia auriculata	■	Salvinia molesta	Salviniaceae		23/
Salvinia molesta	●		Salviniaceae		23/
Salvinia radula	■	Salvinia molesta	Salviniaceae		23/

- Collections
  - Accessions
  - Item management
  - Localities
  - Projects
  - Inbox
- Taxonomy
  - Taxa
  - Taxonomic groups
- Reports
  - Reports

Taxon name: ~ Family: ~

**Pelargonium album** Geraniaceae

Names **Details** Parentage Images References (1)

Properties

Restriction° Provisional°

Description

Occurrence

Distribution ~	notes ~	NO Zuid-Afrika	This...
Habitat ~	notes ~		This species is limited to the area of Pilgrim's Rest in Mpumal
IUCN Red List°			

Attributes

Name	Value
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# Item management

IrisBG - Botanical Garden Collection Management

File Data Window Help

Hortus Botanicus Amsterdam Max search 1000

**Item management**  
Update selected accession items and create labels

Item type: ° Status type: ° Location: ~ Event name: °  
 Planting [ ] [ ] [ ] Task 481: Demonstration for us... [ ]

Acc/item no: ° Taxon name: ~ Pop. no: ° Label type: ° Label ok: °  
 [ ] [ ] [ ] [ ] [ ]

**Update items** Create labels

Update checked items - apply non-empty field values

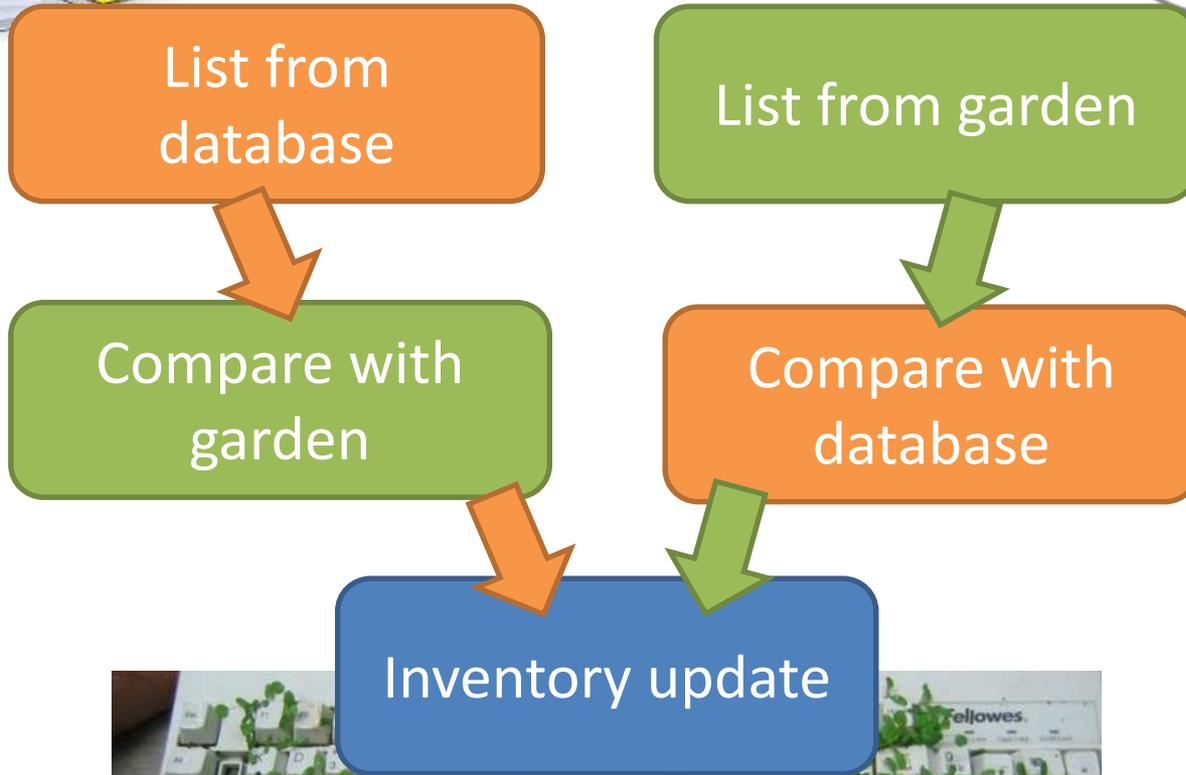
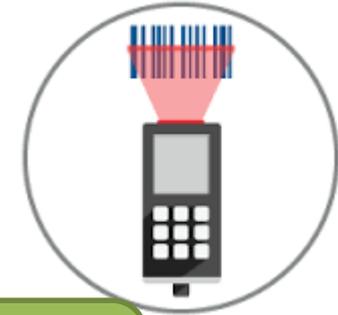
Location: Location ref: Status: Update  
 [ ] [ ] [ ]

Comments (append): Label type: Label ok: Date: Person:  
 [ ] [ ] [ ] [ ] [ ]

Item search result

C...	Acc. item	Ac... /	A... /	... /	...	Taxon name	...	Pop...	Pop...	Item...	Loc...	Lo...	S...	Lbl...	L...	...
<input checked="" type="checkbox"/>	20050012/1	2005	12	1		Salvinia molesta				Pl...	OVE...		M...	●		0...
<input checked="" type="checkbox"/>	20160013/1	2016	13	1		Pelargonium cit...				Pl...	OVE...		Al...	●		1...
<input checked="" type="checkbox"/>	20160014/1	2016	14	1		Pelargonium al...				Pl...	OVE...		Al...	●		1...
<input checked="" type="checkbox"/>	20160015/1	2016	15	1		Pelargonium d...				Pl...	OVE...		Al...	●		1...
<input checked="" type="checkbox"/>	20160016/1	2016	16	1		Pelargonium q...				Pl...	OVE...		Al...	●		1...
<input checked="" type="checkbox"/>	20160017/1	2016	17	1		Pelargonium to...				Pl...	OVE...		Al...	●		1...
<input checked="" type="checkbox"/>	20160018/1	2016	18	1		Pelargonium 'C...				Pl...	OVE...		Al...	●		1...

# Workflow



# Update status

**Item management**  
Update selected accession items and create labels

Item type:  Status type:  Location:  Event name:

Acc/item no:  Taxon name:  Pop. no:  Label type:  Label ok:

**Update items**

Update checked items - apply non-empty field values

Location:  Location ref:  Status:

Comments (append):  Label type:  Label ok:  Date:  Person:

Item search result

C...	Acc. item	...	...	...	Taxon name	...	...	Ite...	Location	...	Status	...	...	Date	
<input checked="" type="checkbox"/>	20150001/1	...	1	1	Melaleuca alternifolia			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150006/1	...	6	1	Rhexia mariana			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150008/1	...	8	1	Meconopsis betonicifolia			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150063/1	...	63	1	Aster alpinus			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150064/1	...	64	1	Aster bellidiastrum			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150217/1	...	...	1	Salvia engelmannii			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150219/1	...	...	1	Salvia pachyphylla			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		06/03/2016	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	20150247/1	...	...	1	Mucuna sempervirens			<input type="checkbox"/> P...	OVERTUIN		Sown	<input checked="" type="checkbox"/>		14/03/2016	<input type="button" value="..."/>
<input type="checkbox"/>	20160012/1	...	12	1	Boswellia sacra			<input type="checkbox"/> P...	OVERTUIN		Germinated	<input checked="" type="checkbox"/>	...	26/03/2016	<input type="button" value="..."/>

