$3$

## The Other Big Question

The other big question for many African ANSPs today is:

How many ATCs do I need?
Associated questions:

- Do I have enough ATCs?
- For what?
- Some days we have enough, other days we don't. What is going on?
- The ATCs are driving me crazy...


## So, how many ATCs do we need?

- To do what?
- Quantify the requirement for labour
- Per sector / service
- Determine an annual summary of services demanded
- Quantify the supply of labour
- "Real" ATC staff availability
- Match requirement for labour with supply of labour
- Demand / Supply Balancing


## Strategic Workforce Planning: Demand

The loneliest tower in the world...

- Hours of duty: 09: 00 to 10:00 daily (1 shift)
- Days of the year: 365
- How many shifts does this tower cover in a year?

365 shifts

## Strategic Workforce Planning: Demand

- Building on 1 service per day $=365$ shifts

Service type

1 service / position
2 service / position
3 service / position 3 1,095

## Strategic Workforce Planning: Demand

| Control service type | From | To | Duration | Shifts / day | Shifts / year |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Aerodrome | 8 | 20 | 12 | 2 | 730 |
| Approach | 0 | 24 | 24 | 3 | 1,095 |
| Area | 0 | 24 | 24 | 3 | 1,095 |
| ... (Fatigue) ... | xx | xx | xx | xx |  |
| ... (other) ... |  |  |  |  |  |
| Supervisor | 8 | 20 | 12 | 2 | 730 |
| Safety specialist | 8 | 16 | 8 | 1 | 365 |
|  |  |  |  |  |  |
| Total |  |  |  | 11 | 4,015 |

## Strategic Workforce Planning: Supply

- Full year's employment
- Defined absences
- Predictable absences
- Leave
- Training
- Other known activities
- Unpredictable
- Sick leave
- Family responsibility
- Other
- Available supply of labour


## Strategic Workforce Planning: Supply

## Aspect: Predictable absences <br> Per year <br> Effect

Full year
Off days (2 days per week)
104
365

Vacation Leave per year
25
236
Continuation Training per year
15
221
Other training days
216
Other commitments
16
200
Total Predictable Absences $165 \quad 200$

## Strategic Workforce Planning: Supply

Aspect: Unpredictable absences
Total Predictable Absences
Family Responsibility Leave
Per year
Effect

Maternity Leave
Unpaid Leave
Relocation Leave
Sick Leave
Special Leave
Study Leave

0
200
$5 \quad 195$
5
2
188
5
183
10
3
5
165

## Strategic Workforce Planning: Solution

Match requirement for labour with supply of labour:
Demand ..... 4,015
Supply ..... 165
Staff required (Demand $\div$ Supply) ..... 24.3
Rounded ..... 25

## Staff calculation exercises

## Strategic Workforce Solution

- Attrition rate
- Resignation
- Retirement
- Other
- Impact of staff shortage on business
- "Just-in-time" staff readiness
- Training planning
- Rating Training
- Validation Training


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