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# **CAST - A site assessment tool**

**P. K. Yadav, S. Birla, V. Baliga, A. Köhler, K. Aryal and others**

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# QUICK ONLINE USAGE AND OFFLINE INSTALLATION

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Contamination Assessment and Site-management Tool (CAST) - A browser based tool for site assessment ##

**Prabhas** will do this - actually it is the readme file in the website currently.



## USING CAST ONLINE (STILL IN DEVELOPMENT)

This is introduction to CAST online interface.

**Anton** and **Vedanti** can do this.

### 1.1 User Login and Access

**Vedanti** will do this.

1. Why Login is required
2. What are accessible without login
3. What user info are stored and if they are cross-verified.
4. Anything more

### 1.2 A quick usage example of CAST

**Sandhya** and **Iram** to do this.

This is one very simple example and linking to the model page for more detailed example.





## INSTALLATION OF BROWSER-BASED CAST

**Kanishk** will do this with help from **Vedanti** and **Prabhas**

This is mostly already done. We need to reformat and that's all.

### 2.1 Quick example of offline CAST

**Sandhya** and **Iram** to do this.

This is one very simple example and linking to the model page for more detailed example.

### 2.2 Updating CAST

The following steps must be taken.

**Kanishk Aryal** with help from **Vedanti** to do this

This means how to update the CAST when the software updates. Nothing much here. E.g., update database etc.



## CAST TOOLBOX - DATABASE MODELS

The following steps must be taken.

**Kanishk, Iram** with help from **Prabhas** to do this.

OK, this is how we do:

1. Describe data a bit
2. Provide how to use the code with screenshots
3. All functions should be explained

We do this for all models.



## CAST TOOLBOX - ANALYTICAL MODELS

The following steps must be taken.

**Sandhya, Iram, Prabhas** and **Anton** to do this.

**Sandhya** and **Iram** - 2D models **Prabhas** Liedl et al 3D **Anton** Bioscreen-AT

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 4.1 CAST Toolbox - Analytical Models - Liedl et al. (2005)

**Sandhya** and **Iram** - 2D models

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 4.2 CAST Toolbox - Analytical Models - Chu et al. (2005)

**Sandhya, Iram, Prabhas** and **Anton** to do this.

**Sandhya** and **Iram** - 2D models

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results

4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 4.3 CAST Toolbox - Analytical Models - Ham et al. 2004

**Sandhya, Iram, Prabhas** and **Anton** to do this.

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 4.4 CAST Toolbox - Analytical Models - Liedl et al. 2011

**Prabhas** to do this.

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 4.5 CAST Toolbox - Analytical Models - BIOSCREEN-AT

**Anton** Bioscreen-AT

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

## CAST TOOLBOX - EMPIRICAL MODELS

The following steps must be taken.

**Sandhya** and **Iram**, to do this.

**Sandhya** and **Iram** - 2D models

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 5.1 CAST Toolbox - Empirical Models - Birla et al. (2020)

**Sandhya** and **Iram** to do this. to do this.

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.

### 5.2 CAST Toolbox - Empirical Models - Maier and Grathwohl (2005)

The following steps must be taken.

**Sandhya** and **Iram** to do this.

**Sandhya** and **Iram** - 2D models **Prabhas** Liedl et al 3D **Anton** Bioscreen-AT

OK, this is how we do:

1. Describe each model - this we already have
2. Provide how to use the code with screenshots

3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results
4. We have to do this for both single and multiple scenario mode.

We do this for all models.



## CAST TOOLBOX - NUMERICAL MODELS

The following steps must be taken.

**Anton** and **Prabhas**, to do this.

OK, this is how we do:

1. Describe the model - this we already have
2. Provide how to use the code with screenshots
3. Step 2 should talk a bit about input value and about functionalities - e.g., slider and how to interpret results



## CAST TOOLBOX - MODEL SELECTION METHOD

The following steps must be taken.

**Prabhas** and **Natalia** , to do this.

Basically we talk about decision model here



## CAST CODE STRUCTURE

**Vedanti** will to do this

This basically talks about “code Structuring”

No very detailed info to be added. Most of them are already there- or bring from your project report.



## CAST CODE LIBRARIES

**Vedanti** will to do this

This basically talks about “Different language and libraries”

No very detailed info to be added. Most of them are already there- or bring from your thesis.





## CAST CODE DEVELOPMENT

**Vedanti** will to do this

This basically talks about “code level development”

No very detailed info to be added. Most of them are already there- or bring from your thesis.



## CITE CAST

The following steps must be taken.

**Prabhas** will to do this



## CAST VERSIONS

**Vedanti** with help from **Prabhas** to do this

Very short one. We have the first version - offline/online development a