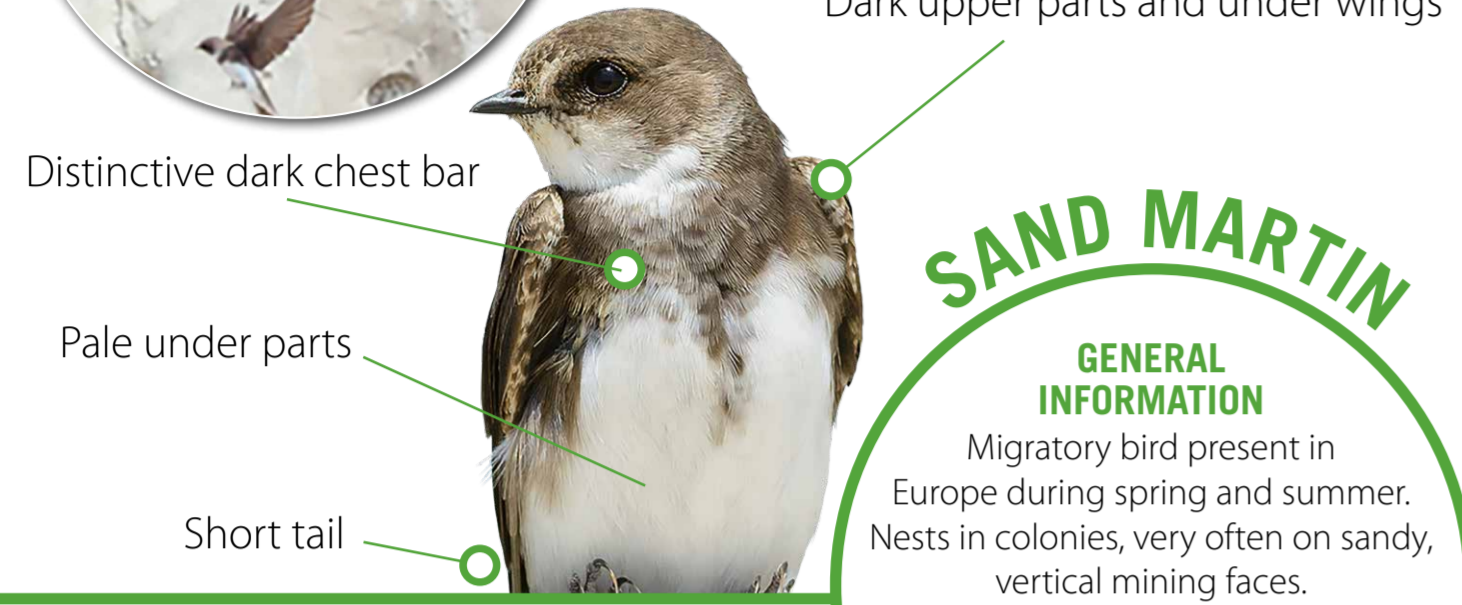


# GUIDELINE FOR SAND MARTIN MANAGEMENT AT HEIDELBERGCEMENT MINING SITES



## SAND MARTIN

### GENERAL INFORMATION

Migratory bird present in Europe during spring and summer. Nests in colonies, very often on sandy, vertical mining faces.

### LEGAL STATUS

The birds and their nests are legally protected in all countries in Europe.

### BEFORE THE SEASON

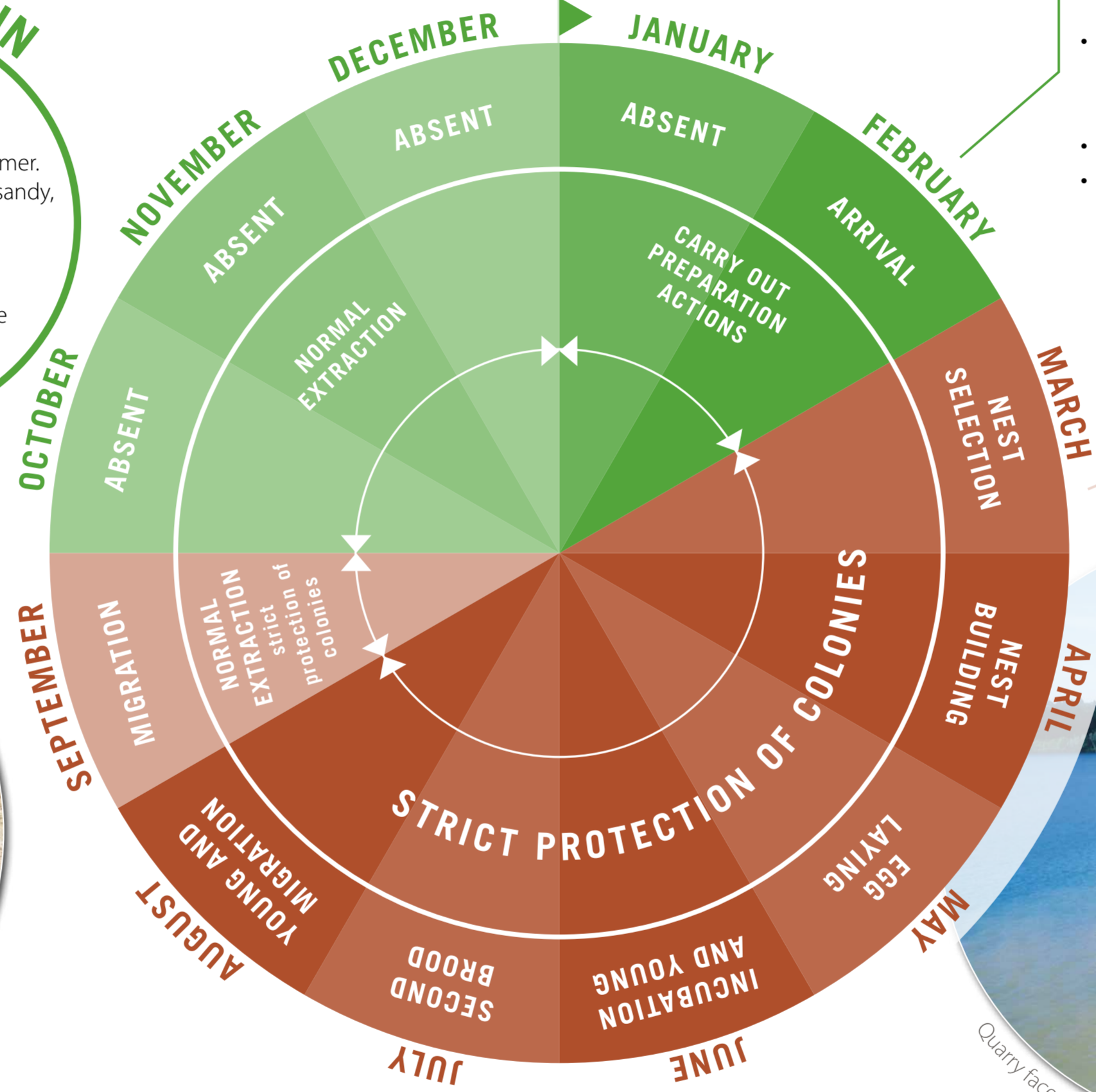
- Establishing initial conditions
- Determine the number of holes
- Determine colony size
- Implement preparation actions

### PREPARATION ACTIONS AT BREEDING FACE

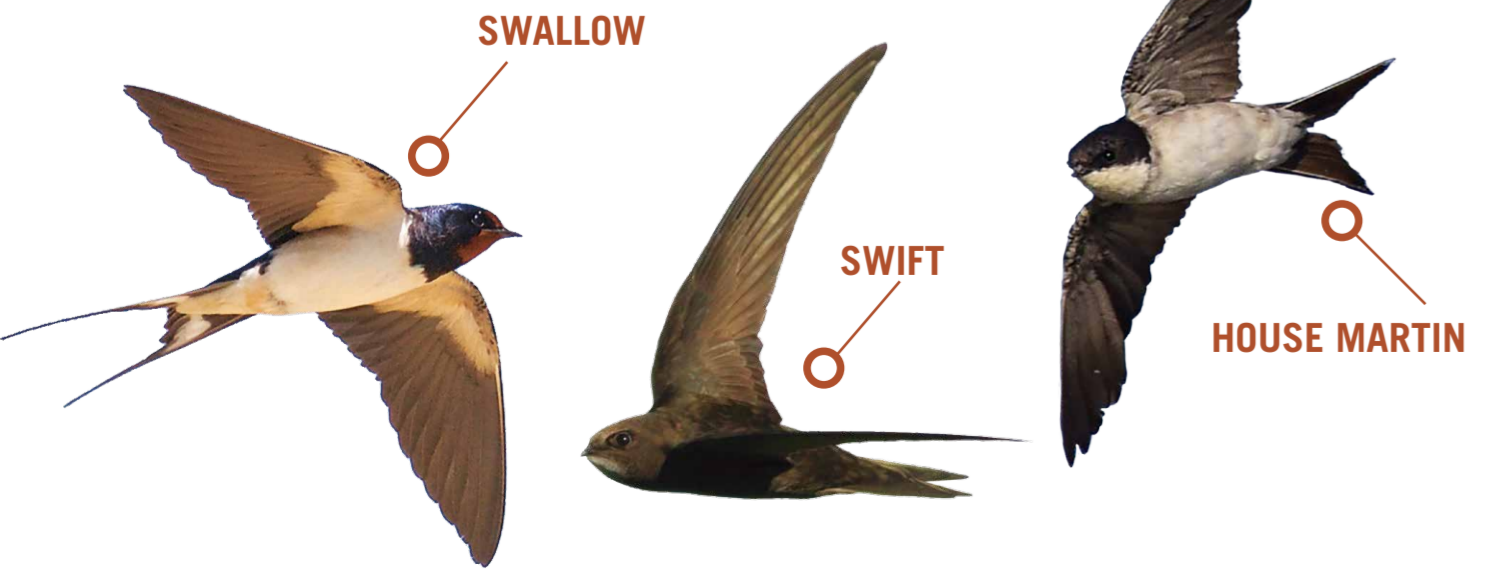
- Refresh verticality at previous colony site.
- Prepare alternative vertical face where there will be no extraction.
- Remove vegetation from the top, bottom and surroundings of the face.
- Clean up fallen scree (tallus).
- Prepare signs and information boards to restrict access to the colony.

### PREPARATION ACTIONS AT WORKING FACE

Faces that will be mined during spring and summer should be graded at 45-60°



## NOT SAND MARTINS!



### DO'S AND DON'TS DURING SPRING-SUMMER:

- Monitor working faces for sand martin activity.
- If holes appear at working face, discourage sand martins by covering with material or grade slope (45°) before colony settles.
- If colony settles, cease extraction here and consult Environmental Manager.
- Otherwise, normal extraction with active sloping at 45°.
- Protect colonies from any form of disturbance.
- Ensure no mining 10 m around colony.
- Put up signs and information boards.



These activities are part of the BirdLife – HeidelbergCement Biodiversity Conservation Programme: Giving nature a second chance

For more information visit: <http://www.birdlife.org/europe-and-central-asia/project/project-map>