contribute to the Pakistani leadership's tacit acceptance of the CIA campaign. "If we were sending F-16s into FATA—American pilots in Pakistani airspace—they might have felt very differently," says James Currie, a military historian at the U.S.'s National Defense University.

By staring at hours of video footage of houses, vehicles and people, analysts looking at screens in Nevada can detect "patterns of life analyses," or timelines of movements and meetings in any given area. But the drones' utility is dramatically enhanced when analysts know exactly what they're looking for and where. For that, there's nothing better than human intelligence. Reports from Waziristan suggest the CIA has access to a network of spies. Tribesmen have told TIME of agents who drop microchips (locally known as *patrai*) near targets; the drones can lock onto these to guide their missiles or bombs with pinpoint precision. But it has proved difficult to verify these claims of human assets and their homing chips.

The drones are far from infallible,

however. They can survey only small patches of territory at a time, and it would take thousands of them to cover every nook and cranny of Pakistan's long frontier. Several crashes have been reported. Thermal cameras are notoriously imperfect. Even under ideal conditions, images can be blurry. In one of several stills from drone video seen by Time, it's hard to tell if a group of men is kneeling in prayer or the men are militants in battle formation. "The basic problem with all aerial reconnaissance is that it's subject to error," says George Friedman, who heads the security firm Stratfor. "But in a place like Pakistan, errors have enormous po-

The Political Cost

litical consequences."

THAT THEY DO. CRITICS OF THE DRONES ask if it makes sense for the U.S. to use them when every strike inflames Pakistani public opinion against a pro-U.S. government that is at the point of collapse. "If we wind up killing a whole bunch of al-Qaeda leaders and, at the same time, Pakistan implodes, that's not a victory for us," says David Kilcullen, a counterterrorism expert who played a key role in developing the surge strategy in Iraq. "It's possible the political cost of these attacks exceeds the tactical gains." And yet Pakistani leaders like army Chief of Staff General Ashfaq **Reaper: A New Way to Wage War**

Unmanned drones have become the most effective weapon in battling Taliban insurgents who have been hiding in Pakistan's lawless regions. The Reaper is a beefed-up Predator, capable of carrying 10 times the weaponry including 500-lb. bombs of its smaller cousin

FEATURES

find their target

Kavani seem to have concluded that using

drones to kill terrorists in FATA is gener-

ally a good thing. This is a major change

in direction; although former President

Pervez Musharraf allowed drones to oper-

the Pakistanis would like to tweak it.

Visiting Washington last month, Zardari

MULTISPECTRAL SENSOR

Imagers on the Reaper can

read a license plate from

2 miles high. The sensors

are used to assist onboard or

remote weapons systems to

LYNX RADAR SYSTEM

The Reaper uses radar to produce high-resolution images. It can zoom in on a target or take wide views

AUTOPILOT

Onboard computers allow the drone to pilot itself, but the craft must be controlled remotely for takeoff and landing

Fuel tanks in fuselage and wings





Tora Bora

Miram

Administered

AIM-9 SIDEWINDER

HELLFIRE II

The short-range heat-seeking missile was named after a type of snake that detects the body heat of its prey

Used to penetrate armor and defeat urban targets, it has a relatively small blast that limits possible civilian casualties

Radio antennas

GBU-12 PAVEWAY II

Turboprop

engine

An operator illuminates a target with a laser designator; the bomb follows the laser beam to the target

Altitude 5 miles Speed 288 m.p.h. Endurance 24 hours \$10 million Cost

PERFORMANCE

go from Creech Air Force Base near Las Vegas via satellite links to drones TO PAKISTAN ▶

The Reaper is roughly the size of a tennis court

> President Hamid Karzai. Mehsud has high command is thought to be hiding.

Peshawar

PAKISTAN

Drone strikes since

January 2008

Senior enemy

SOUTH

Islamabad O

stepped up his campaign of terrorism on But in the long term, the Pakistani Pakistani soil as well, saying a recent atfrontier can be safe only when the tribes tack on a police-training center in Lahore are more favorably disposed toward the U.S. was a response to the drone attacks. and the Pakistani government than toward For all the caveats, the hum of the the militants. The U.S. hopes that can be machav will grow louder in Pakistani achieved by supplementing the drones with skies this summer. The arrival of more development aid, much of it earmarked for the tribal areas. But can that money U.S. troops in Afghanistan will make it all the more important to deprive start working its magic before the resental-Qaeda and the Taliban of their safe ments roused by the drone campaign mehaven in Pakistan. Obama is widely extastasize into an irreversible jihad? On that pected to authorize a broadening of the question of timing may hinge the success drone attack to include the southwestern or failure of a modern war fought in an an-Pakistani province of Baluchistan and cient environment.—WITH REPORTING BY its capital, Quetta, where the Taliban OMAR WARAICH/ISLAMABAD

men, as it did with Iraqi insurgents, "we front against the U.S., Zardari and Afghan

can't afford to be seen as people who fight

ate, he placed severe limits on where and when they could strike. After Musharraf resigned last summer, the shackles came off. The U.S. struck a tacit bargain with the new administration in Islamabad: Zardari and Kayani would quietly enable more drone operations while publicly criticizing the U.S. after each strike. The arrangement has worked well for the U.S., though

asked Obama to let Islamabad have direct control of the drones.

FROM THE OPERATOR Signals take 1.2 seconds to

Ordinary Pakistanis, though, remain unconvinced that the campaign serves Pakistan's interests. The drones feature in anti-U.S. and anti-Zardari graffiti and cartoons and are the punch line of popular jokes about American impotence or cowardice: Asked why she's ditching her U.S. boyfriend, a Pakistani woman says, "He shoots his missile from 30,000 ft."

The accusation of cowardice is especially damaging in the tribal areas, where bravery is regarded as an essential quality in an ally. Kilcullen warns that if the U.S. hopes to eventually win over the tribesfrom afar, who don't even dare to put a pilot in our planes." The drones seem to be uniting militant groups against the U.S. and the Zardari government. Waziristan warlord Maulyi Nazir signed a nonaggression pact with the Pakistani military in 2007 and sent his fighters to battle Mehsud. But because he continued to mount attacks on U.S. forces in Afghanistan, he became the target of drone strikes. Enraged, he recently buried the hatchet with Mehsud and joined forces with him and a third warlord in a united

TIME June 1, 2009